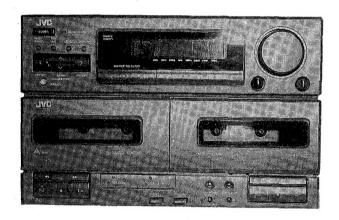
JVC

SERVICE MANUAL

STEREO RECEIVER

CA-MXC5BK

UNIT No. DX-MXC5BK



Contents

Safety Precautions 1-2	Adjustment Procedures(Cassette Deck)	1-37
Instruction Book 1-3	Block Diagrams	Insertion
Description of ICs 1-28	Schematic Diagrams	Insertion
Internal Connection	Printed Circuit Boards	Insertion
of the FL Display 1-32	Parts List Separate-volume	Insertion
Disassembly Procedures		

Safety Precautions

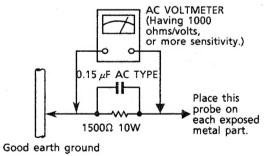
- 1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
- 2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
- 3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (\(\triangle \)) on the Parts List in the Service Manual. The use of a substitute repalcement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
- 4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
- 5. Leakage currnet check (Electrical shock hazard testing)
 After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, contorl shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester",
 measure the leakage current from each exposed metal parts of the cabinet, particularly
 any exposed metal part having a return path to the chassis, to a known good earth
 ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
- Alternate check method Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10 W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground.

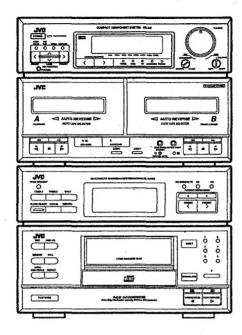
Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and meausre the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



Warning

- 1. This equipment has been designed and manufactured to meet international safety standards.
- 2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
- 3. Repairs must be made in accordance with the relevant safety standards.
- 4. It is essential that safety critical components are replaced by approved parts.
- 5. If mains voltage selector is provided, check setting for local voltage.



Thank you for purchasing thus JVC Compact Component Stereo System. We hope it will be valued addition to your home, giving you years of enjoyment.

Be sure to read this instruction manual carefully before operating your new stereo system. Here you will find all the information you need to set up and use the system.

For questions that cannot be answered in the manual, please contact your dealer.

IMPORTANT CAUTIONS

- 1. Installation of the unit
- Select a place which is level, dry and neither too hot nor too cold (between 5°C and 35°C).
 Leave sufficient distance between it and your TV.
 Do not use it in a place subject to vibrations.
- 2. Power cord
- Do not handle the power cord with wet hands! When unplugging from the wall outlet, always pull the plug, not the power cord.
- 3. Malfunctions, etc.
 There are no user serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
 Do not insert any metallic object into the receiver.

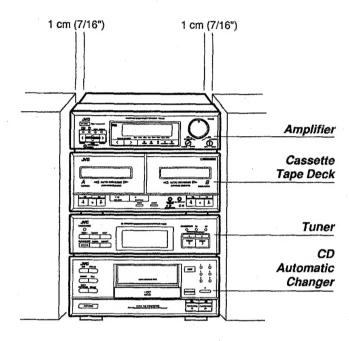
Table of Contents

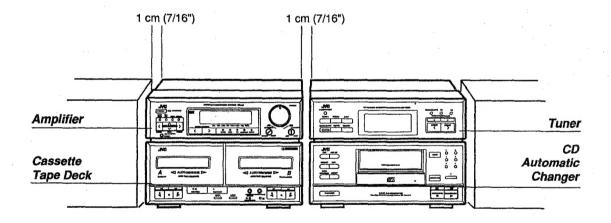
IMPORTANT CAUTIONS	3
Getting Started	6 7 7
Using the Amplifier Using the Power Switch Adjusting the Volume controls Selecting the Source Using Turntable, VCR and DAT Using the SEA Function Changing the SEA Display Using the MSEC Feature	9 9 9 9 10
Using the CD Automatic Changer Installing the discs in the magazine: Preliminary Operation	11 11 11 11 12 12 12 13 13
Using the Tape Deck Playing a Tape Listening the Tape Continuously Music Scanning Recording a Tape Dubbing a Tape Erasing a Tape Direct Recording from the CD Automatic Changer Recording CD Tracks in Auto-Edit Mode Recording CD Tracks in Programmed-Edit Mode Creating a Blank During Recording Recording with the Timer Care and Handling	16 16 17 17 17 18 19 19 20
Using the Tuner Listening the Broadcasts Presetting Stations in Memory FM Reception Modes Using the Timers Setting the Clock Setting the Timers Setting the Wake-Up and Sleep Timer	21 21 21 22 22 22
Using the Remote Controller Operating the Remote Controller Troubleshooting Specifications	24

Laying Out the System

There are two ways to lay out the system as shown below:

- Leave a space of at least one cm on both sides of the amplifier and keep the back at least 10 cm from the wall for ventilation. If the system does not work well or needs repairing, please take all the components with you to the nearest agent.





<u>JVC</u> POWER - ST

JVC

A PLAYBACK

٥

JVC

TIMER 1

PLAY MODE

O O

MBEC ON/OFF

REMOTE

AUTO REVERSE AUTO TAPE SELECTOR

٥

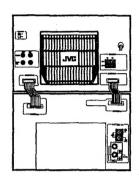
O

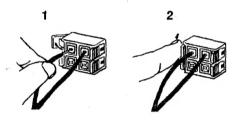
O DOLBY B NR

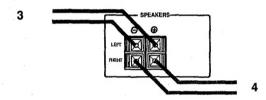
OF C

Getting Started

Connecting the System Components







Connection Notes

Before you plug in the system, you must make all the necessary connections.

Connecting the Two stereo Components

Connect the Amplifier/Tape Deck component and the Tuner/CD Automatic Changer component.

Connect the two ribbon cables (CONNECTOR A and B) from Tuner/CD Automatic Changer component to the Amplifier/Tape Deck component.

Connecting The Speakers

Speaker Terminals

Connect the speakers to the Amplifier/Tape Deck components as follows:

- When connecting speakers, open each terminal and insert the end of the speaker wire as shown.
- 2. Close the terminals as shown to clamp the speaker wires in place.

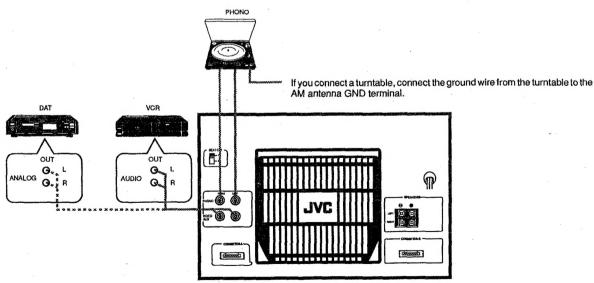
SPEAKERS

Connect the Speakers to the SPEAKERS terminal on the Amplifier/Tape Deck as follows.

- 3. Connect the (+) and (-) terminals of the right-side Speaker to the
- (+) and (-) terminals marked RIGHT on the Amplifier/Tape Deck.
 4. Connect the (+) and (-) terminals of the left-side Speaker to the (+) and (-) terminals marked LEFT on the Amplifier/Tape Deck.
- Using speakers with the correct impedance. The correct impedance is indicated on the rear panel.

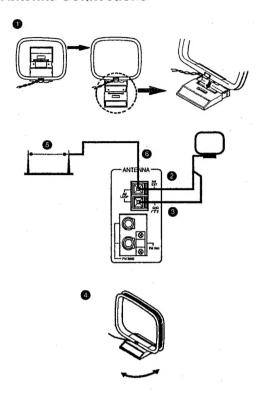
Connecting Other Components

The amplifier can also be connected to a Turntable (PHONO), a Video Cassette Recorder (VCR) and a Digital Audio Tape (DAT) Deck.



6

AM Antenna Connections



AM Loop Antenna

- Fold out the loop from the antenna base.
- Connect one antenna wire to one of the AM LOOP terminals.
- Connect the remaining antenna wire to the other AM LOOP
 - Note: These two terminals open and close the same way as the speaker terminals.
- 4. Adjust the loop antenna as needed to get the best reception.

AM Outdoor Antenna

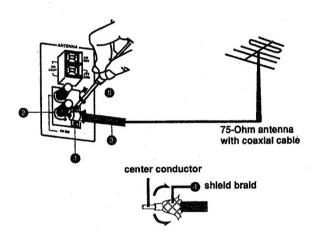
If your AM broadcast reception is unsatisfactory, you should connect an AM outdoor antenna in addition to the loop antenna.

Important! The AM loop antenna must be installed to receive AM broadcasts. Do not disconnect the loop antenna when installing an outdoor antenna.

- 5. Install a single vinyl-covered antenna wire outdoors. The antenna wire should be about 16 to 40 feet (5 to 12 meters) long.
- Connect one end of the antenna to the AM loop terminal marked AM EXT.

Note: Except for the connection, make sure that no uninsulated antenna wire touches the rear panel. Otherwise, you might not receive AM broadcasts.

FM Antenna Connections



FM 75-Ohm Antenna Cable

- Loosen the screws holding the bracket.
- Loosen the cap of the 300/75-ohm terminal.
- Insert the round antenna cable through the bracket from below. Make sure that the shield braid on the cable contacts the 300/75-
- ohm terminal.
- 5. Tighten the bracket screws and the cap on the 300/75-ohm termi-

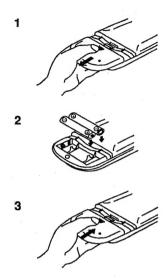
FM 300-Ohm Antenna Cable

- 1. Loosen the cap on the 300/75-ohm terminal.
- Loosen the cap on the 300-ohm terminal.
- Connect the two conductors of the antenna cable to the 300/75-ohm terminal and the 300-ohm terminal.
- Tighten the caps on both terminals. Note: Whether you use the 75-ohm or 300-ohm cable, make sure the antenna conductors do not touch any other terminals on the rear panel. This could cause poor reception.

Note:

Make sure the antenna conductors do not touch any other terminals, connecting cords and power cord on the system. This could cause poor reception.

Installing Batteries in the Remote Controller



Remove the battery compartment lid.

Press the lid and slide it in the direction of the arrow.

2. Insert the batteries.

Use two UM-4/AAA (24F)/R03 size batteries. Make sure the + and - polarities on the batteries and compartment are the same.

3. Attach the lid.
Press the lid and slide it in the direction of the arrow.

- Note:
 Batteries installed incorrectly may burst of leak. Pay attention to the following:

 When the Remote Controller is not in use for a long period of time,
 - remove the batteries.

 - Do not mix old and new batteries.
 Do not mix batteries of different types, even if their shapes are the same.
 - When batteries become weak, the operating distance of the Remote Controller is greatly reduced and you will need to replace the batteries.

AC power connection

Caution: To prevent electric shock, turn all stereo components off before you install or remove power cords.

Important! Before you plug the power cord into an outlet, make sure that all stereo components are connected correctly.

Using the Amplifier

Using the Power Switch

- Press the POWER switch to turn on the stereo system.
 When the POWER switch is not pressed and the power cord is plugged in, the stereo is in STANDBY mode and STANDBY/DEMO indicator lights. in STANDBY mode, the stereo uses a small amount of power (12 watts) for the clock, memory contents, and any timers which are set.
- 2. To disconnect power completely, unplug the power cord.

Adjusting the Volume controls

Volume

Turn the VOLUME knob to adjust the volume level of the speakers or headphones.

 Connect headphones to the PHONES jack on the amplifier for listening through headphones. No sound will be produced from the speakers.

Important! There is danger of your hearing being affected if you listen to your sound system at an excessively high volume level. You must be especially aware of this danger when using headphones.

Balance

Turn the BALANCE knob to adjust the left-and-right sound balance in the speakers or headphones.

Bass Control

Turn the BASS CONTROL knob to adjust the output level of the low frequencies.

Turning this control toward BOOST will boost the low frequencies.

DEMO

The 51 SEA patterns which are inbuilt in the system will be played to you one by one. Please use this function while music is being played back.

1. Press the DEMO button.

The STANDBY/DEMO indicator starts flashing.



- Demonstration playback will start from POPS MODE 1.
 Frequency wave patterns change in accordance with the pattern of each demo mode.
- To cancel the demonstration playback, press the DEMO button again.
 It can also be cancelled by pressing any one of the other buttons on the amplifier.

Selecting the Source

Select the SOURCE you want to listen to with SOURCE SELECTOR button.



Each time you press the SOURCE SELEC-TOR button, the source changes to the next one in the sequence, and the corresponding SOURCE indicator lights.

→ TUNER → TAPE → CD → AUX/
VIDEO → PHONO →

Using Turntable, VCR and DAT

In addition to the CD Automatic Changer, Tuner, and Cassette Tape Deck, the amplifier can also play a turntable, a VCR and a DAT.

- 1. Turn the power for each piece of component ON.
- To play a record, press the SOURCE SELECTOR button on the amplifier so that PHONO lights on the SOURCE indicator.To use VCR or DAT, press the SOURCE SELECTOR button on the amplifier so that AUX/VIDEO lights on the SOURCE indicator.
- 3. To operate the each component, refer to its instruction manual.
- You can operate a JVC VCR using the remote controller.

When VCR is connected, the sound is heard through the speakers.

Using the SEA Function

SEA (Sound Effect Amplifier) is a function which divides playback sound into 7 frequency ranges between 63Hz (bass) and 16kHz (treble); it then adjusts the sound quality by increasing and decreasing the level of each frequency range.

The total of 51 pre-programmed SEA settings are available in this system. Sound quality of these settings has been carefully adjusted using the SEA function. You can, therefore, find the sound quality you like by simply selecting the mode and the pattern without having to adjust each of the 7 frequency ranges.

There are 6 modes - POPS, JAZZ, ROCK, MOVIE, CLASSIC and FLAT-in the 51 pre-programmed SEA settings. Each of these modes, except for the FLAT mode, comes with 10 different patterns.

The pre-programmed SEA modes are:

POPS Good for vocal music.

JAZZ Gives a feeling of a live atomosphere.

ROCK Boosted low and high frequencies.

Good for acoustic music.

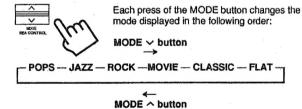
MOVIE Adds breadth to the sound so you feel like you're in a movie

Adds brea

CLASSIC Set for wide and dynamic sound stereo systems.

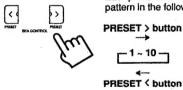
FLAT Gives a flat sound by tuning all frequencies to 0. Press the SEA FLAT button to obtain this mode.

1. Press the MODE button of the SEA CONTROL.



2. Press the PRESET button of the SEA CONTROL.

Each press of the PRESET button changes the pattern in the following order:



Changing the SEA Display

Four display modes (PEAK HOLD, PEAK LINE, REVERSE, EQUALIZING PATTERN) are available. Each time you press the DISPLAY button, the display mode will change in the following order:



→ PEAK HOLD → PEAK LINE → REVERSE → EQALIZING PATTERN → (back to the beginning)

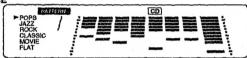
PEAK HOLD



PEAK LINE



REVRESE



EQUALIZING PATTERN



Using the MSEC Feature

MSEC (Multi Source-related Effect Control) is a function which can memorize and then automatically recall the SEA pattern as well as SEA mode for each sound source. If the power is switched off or the sound source is changed, the SEA modes and patterns will be stored in the memory. These memorized modes and patterns can later be automatically recalled as you change the sound source.

Press the MSEC ON/OFF button. The indicator starts flashing.





Set the SEA mode and pattern of your choice for each source.

The unique combination of SEA mode and pattern you have selected for each source will be automatically recalled when you change the sound

- When MSEC is turned OFF, the SEA mode and pattern will not be
- memorized.

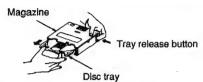
 If MSEC is initially turned OFF and then turned ON during the playback, the SEA mode and pattern which have been memorized will be automatically recalled.

Using the CD Automatic Changer

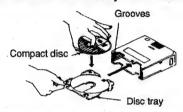
Installing the discs in the magazine

How to install the discs

1. The discs trays in the magazine are removable. Slide the disc tray out while simultaneously the tray release button.



2. Locate a disc on the disc tray with its label side up.

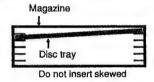


3. Line up the disc tray with the grooves in the magazine and push the disc tray right in.

It is unnecessary to press the tray release button when inserting the disc

If you wish to use 8 cm (3") CDs, please obtain the special magazine (XC-M73), designed for these.

Never bend the disc tray or force it into the magazine. A disc tray inserted skewed may cause a malfunction.



- The openings in the disc trays are for the passage of the laser signal. These openings leave a part of the shiny surface of the disc exposed. Please take care not to touch this shiny surface.
- It is not possible to play from the disc if it is located upside-down.
- Never place a disc directly in the magazine without using the disc tray.

Preliminary Operation

Up to seven discs can be played by using both the SINGLE PLAY TRAY and magazine.

Insert the magazine, discs installed in, in the MAGAZINE SLOT. Push it gently until it clicks in place.

Install a disc on the SINGLE PLAY TRAY.

- 1. Press the OPEN/CLOSE button on the CD Automatic Changer. The SINGLE PLAY TRAY slides out.
- 2. Place a CD (with a label facing up) in the tray, and press the OPEN/ CLOSE button again. The tray slides back in.
- 3. Press the CD Automatic Changer PLAY/PAUSE button, or select CD with the amplifier SOURCE SELECTOR. The CD Automatic Changer plays the CD on the single play tray with the first track.

The single play tray is indicated by P on the display. For the order in the magazine, the bottom disc tray is Disc No. 1, the disc tray above it is Disc No. 2, and the top disc tray is Disc No. 6.

To Stop Play

Press the STOP/CANCEL button on the CD Automatic Changer or Stop button on the Remote Controller.





Ejecting the MAGAZINE

Press the EJECT button on the CD Automatic Changer.



Electina the CD

1. Press the OPEN/CLOSE button, and take the CD out of the tray.



2. Press the OPEN/CLOSE button again to close the tray.

Continuous Play

In CONTINUOUS mode, you may play any of the selection of any disc, to the final track on the DISC No. 6, continuously.

Press the PLAY MODE button and select the CONTINUOUS mode. If you use the Remote controller, press the CD CHANGER button and then press the CONTINUE button.

The CONTINUE indicator lights.



- When the power is switched on, control enters the CONTINUOUS mode.
- When you select CD with amplifier SOURCE SELECTOR, the CD Automatic Changer begins to play.

Note:

When you press the PLAY MODE button and change the mode, set the CD Automatic Changer to the Stop mode. You cannot change the mode during playing.

To Play from the First Selection

Press the PLAY/PAUSE button on the CD Automatic Changer.



The discs are played in order from the first track on the single play tray to the last track on Disc No. 6.

- If the single play tray is open, it will close automatically and playback will
- If there is no CD on the disc tray or there is no disc tray, the CD on the next disc tray is played.

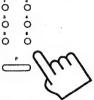
Stopping and Restarting Playback

1. Press the PLAY/PAUSE button on the CD Automatic Changer. Playback stops temporarily.

- if you press the CD CONTROL ▶ button on the Remote Controller, the playback will not stop temporarily.
- Press the PLAY/PAUSE button again. Playback restarts.

Selecting a Disc to Play

1. Select the disc desired with the DISC button on the CD Automatic Changer.



If you use the Remote Controller, press the CD CHANGER button, and specify the Disc No. with numeric keys 1 to 6 and P.

CD CHANGER	Ö	Ö	Ö	ö
	Ö	ő	Ö	

The discs are played in order from the first track on the CD with the selected disc No. to the last track on Disc No. 6.

Notes:

- If there is no CD on the disc tray or the disc No. with disc tray specified, the CD on the next disc tray will be played.
- The disc No. indicators go off if there is no CD on the disc tray and there is no disc tray. You cannot select any disc No. if the corresponding indicator is off.

Selecting a Track to Play

Use the _____ button.

Scanning through track numbers (AUTO SEARCH)

Each time the button is pressed, the track moves backward by one

Each time the . button is pressed, the track moves forward by one number.

- If you press the or button continuously while the CD Automatic Changer is in the stop mode, the track number will continue to move in the selected direction.
- If you press the . or . buttons while the CD Automatic Changer Is in the pause mode, you will find the original track you selected. You can restart playback by pressing the PLAY/PAUSE button.

Searching for a specific part of a track (MANUAL SEARCH)

If you hold down the . button while the CD Automatic Changer is playing or has paused, fast rewinding will occur.

If you hold down the ... button while the CD Automatic Changer is playing or has paused, fast forwarding will occur.

- When the track number selected on a certain disc does not exist, play
- starts from the final selection on that disc.

 If there is no CD on the disc tray or you specify a track with the disc No. without a disc tray, the display Disc No. indicator will go off, and the CD on the next disc tray will be played.

Using the Remote Controller to Select a Track

There are two ways to search for a track with the remote controller:

Numeric keypad

ö	Ö	Ö	Ö
Ö	Ö	7.5	Ô
CONTINUE	10/PRGM	Ö	

AUTO SEARCH buttons ₩ or ▶

Using the Numeric Keypad

- 1. Press the CD 10KEY button on the Remote Controller.
- Enter the track's number with the numeric keys.
- If the track you want to hear is the 8th track, press the 8 key.
 - If the track you want to hear is the 15th track, press the +10 key and the
- If the track you want to hear is the 20th track, press the +10 key and the 10 key.

Using the Auto Search Buttons

Press the Auto Search ◄ or ▶ button on the Remote Controller to scan through the track numbers.

You cannot search manualy by holding down the ◄ or ▶ button on the Remote Controller.

Listening Repeatedly

Using the REPEAT button.



Each time you press the REPEAT button, the mode will change in the following order:

→ REPEAT → REPEAT 1 → OFF → (back to the beginning)

If all discs in the CD Automatic Changer and the last track are played, playing will be repeated from the first disc. It will keep repeating until you cancel the repetition.

If you select the REPEAT mode in the PROGRAM mode, all the programmed tracks will be played, and they will be repeated in the order programmed.

The current track will play to the end and then start over again. It will keep repeating until you cancel the repetition.

If you select the REPEAT 1 mode in the PROGRAM mode, the selected track will be played repeatedly.

Canceiling Repetition

Press the REPEAT button and turn the REPEAT indicator off. Each track will play till the end without repeating.

INTRO play

This function is useful to search for a disc or track in the CD Automatic Changer.

- Press the STOP/CANCEL button on the CD Automatic Changer or Stop button on the Remote controller.
- Press the PLAY MODE button and select the CONTINUOUS mode.
 If you use the Remote Controller, press the CD CHANGER button
 and then press CONTINUE button.
 The CONTINUE indicator lights.

PLAY MODE

Press the CD Automatic Changer INTRO button and select the desired mode.

Each time you press the INTRO button, the mode changes in the following order:

DISC/TRACK

→ DISC INTRO → INTRO → OFF→ (back to the beginning)

DISC INTRO mode

Play the first track of each of the discs in the CD Automatic Changer from the disc on the single play tray to Disc No.6, for 15 seconds.

INTRO mode

Play the beginning of each track of the discs in the CD Automatic Changer from the disc on the single play tray to Disc No.6, for 15 seconds.

 Press the PLAY/PAUSE button on the CD Automatic Changer or Play button on the Remote Controller.





· Each track will be played for 15 seconds in the mode you selected.

Notes:

- When you press the the or the order of the interior of the interi
 - from the beginning in the CONTINUOUS mode.
 - If you press the the button, the track following the currently selected track is played in the CONTINUOUS mode.

 If you hold down the the same or the button, the manual search function
- will be available, and you can have fast-rewind or fast-forward.
 If you press the Disc button on the CD Automatic Changer in the INTRO mode, or if you press the CD CHANGER button on the Remote Controller, then select a disc with numeric keys. This will cancel the INTRO mode, and tracks will be played in the CONTINUE mode,
- starting from the first track of the disc.
 If you press the CD 10KEY button on the Remote Controller, select a disc with numeric keys while playing in the INTRO mode, the INTRO mode will be canceled, and tracks will be played in the CONTINUE mode from that track.

To cancel the INTRO play

 Press the STOP/CANCEL button on the CD Automatic Changer or the Stop button on the Remote Controller.





2. Press the INTRO button and turn the indicator off.

Note:

 If you press the STOP/CANCEL button on the CD Automatic Changer or the Stop button on the Remote Controller, and press the PLAY MODE button, the INTRO mode will be canceled, and the CONTINU-OUS mode will change to the PROGRAM mode.

Programmed Play

In PROGRAM mode 32 steps can be programmed to play in any desired order from the 7 discs loaded into the magazine and single play tray.

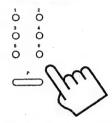
Press the PLAY MODE button and select the PROGRAM mode. If you use the Remote Controller, press the CD CHANGER button and then press the PRGM button.

The PROGRAM indicator lights.

PLAY MODE



- Press the STOP/CANCEL button.
 This puts the CD Automatic Changer in STOP mode.
- Press the PLAY MODE button on the CD Automatic Changer and select the PROGRAM mode. The PROGRAM indicator lights.
- Press the DISC button and select a disc. The AL indicator flashes on the display.



 If you use the Remote Controller, press the CD CHANGER button and then specify the Disc No. with numeric keys 1 to 6 and P.

CHANGER CO CHANGER

- The AL indicator shows that all the tracks on the selected disc have been selected. If you press the MEMORY button while the AL indicator is flashing, all the tracks on the disc are programmed.
- Press the issue or issue button and select a track.
 The step and the selected track flash on the display.



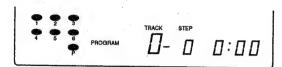
 If you use the Remote Controller, press the CD 10 KEY button, and then specify a track with numeric keys.

	ö	Ö	Ö	Ö
GD 10KEY	55	Ö	⁷ P	Ô
	9/CONTINUE	10/PRGM	.1º	

- · Select a track while the AL indicator is flashing on the display.
- Press the MEMORY button on the CD Automatic Changer. The step and the selected track will light on the display.
 The CD Automatic Changer will wait for selection of the next track.



- Select a track by repeating steps 3 to 5.
- You can program up to 32 tracks. Perform steps 3 to 5 while the display is flashing. If the display stops flashing and lights as follows, perform step 3 and subsequent steps again.



Press the PLAY/PAUSE button on the CD Automatic Changer. Playback begins with the first track in the program.

Checking the Program

You can check the programmed sequence of playback to determine which tracks will be played in which order.

Note:

- The program contents cannot be displayed during playback. Press the STOP/CANCEL button if the CD Automatic Changer is in play mode.
- 1. Press the CALL button once on the CD Automatic Changer.



The first track in the program are displayed, along with its sequence number.

For example:



This display shows that track 6 on Disc No. 2 is played first.

2. Press the CALL button repeatedly.

The rest of the tracks in the program are displayed, along with their

Listening to Programmed Tracks Repeatedly

1. Press the REPEAT button to listen to the programmed sequence of playback repeatedly.



2. Then press the PLAY/PAUSE button.

Updating the Program

Adding Tracks to the Program

You cannot add any track to the program while playing. If the CD Automatic Changer is playing, press the STOP/CANCEL button.

Perform steps 3 to 5 in the section "Programmed Play" on page 13.

Program modification

- You cannot modify the program while playing. If the CD Automatic Changer is playing, press the STOP/CANCEL button.
- 1. Hold down the CALL button until the track or step to be modified

Select them while the step is flashing on the display. The track and step appear on the display, and the step flashes.



- 2. Select the Disc. No. and track.
- The track and step appear on the display, and the step flashes.
- If the display stops flashing and lights, perform step 1 and subsequent steps again.
- 3. Press the MEMORY button.

Deleting Tracks from the Program

- The program contents cannot be deleted during playback. Press the STOP/CANCEL button if the CD Automatic Changer is in play mode.
- 1. Press the CALL button.

Press the CALL button until the track or step to be deleted appears on the display.

2. Press the STOP/CANCEL button on the CD Automatic Changer. The track being displayed will be deleted.



- To delete all programmed steps:

 Set the CD Automatic Changer to the Stop mode, press the STOP/ CANCEL button and delete all programmed steps.
- Switch the power off.
- The program remains in memory until you switch the power off. To program new tracks, first turn the power off the delete the whole program.

To cancel the PROGRAM mode:

Set the CD Automatic Changer to the Stop mode, press the PLAY MODE button, and select another mode.

Random Play

in RANDOM mode, the CD Automatic Changer selects and plays tracks at random, from among the 7 discs in the magazine and the single play tray.

- Selections can be made so that each track would be played only once.
- 1. Press the PLAY MODE button and select the random mode. The RANDOM indicator lights.

PLAY MODE

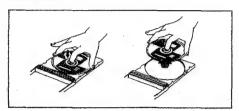
- 2. Press the PLAY/PAUSE button on the CD Automatic Changer or CD CONTROL ▶ button on the Remote Controller. CD Automatic Changer starts playing tracks at random.
- If you set the CD Automatic Changer to the REPEAT mode by pressing the REPEAT button, even after all tracks have been played once, the CD Automatic Changer will again select and play at random to continue the random playback.
- 3. To cancel random playback, press the STOP/CANCEL button.

To cancel the RANDOM mode:

Set the CD Automatic Changer to the Stop mode, press the PLAY MODE button, and select another mode.

Handling Compact Discs & The Magazine

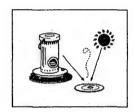
How to handle CDs



When handling compact discs, do not touch the surface of the disc (reflective silver side-the side without the label).

Since compact discs are made of plastic, they are easily damaged. If the disc gets dirty, dusty, scratched or warped, the sound will not be picked up correctly and, in addition, such discs may cause the CD Player-changer to

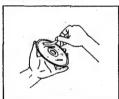
Storage

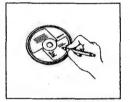


Make sure than the discs are kept in their cases. If the discs are piled, one on top of another, without their protective cases, they can be damaged.

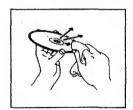
Do not put discs in any location where they can be exposed to direct sunlight- or in any place where the humidity or the temperature are high. Avoid leaving discs in your carl

Maintenance of Discs





Do not damage the label side, or stick paper to, or use any adhesive on this surface.



- When there are fingerprints or other dirt adhering to a disc, wipe the disc
- with a soft, dry cloth, with a movement going from the Inside, outwards. If it is difficult to clean, wipe the disc with a cloth moistened with water.
- Never use record cleaners. petrol, alcohol or any anti-static agents.

Recommendations on handling the magazine

- Always keep the magazine loaded with its six disc trays.
- When removing or inserting the disc trays, the magazine should be held horizontal.
- Only load the magazine with compact discs already located on disc tray. Never load a disc directly into the magazine without a disc tray. Do not expose it to high temperatures or to direct sunlight.
- Do not dismantle the magazine.
- Take care not to drop or bang the magazine. Do not apply any high loadings to the disc trays, particularly when removed from the magazine.

 Never apply such solvents as petrol or thinner, nor insecticide to the
- surfaces of the magazine or the disc trays. Such solvents may damage their surfaces.
- If you wish to use 8 cm (3") CD please obtain the special magazine (XC-M73), designed for these.

Only use compact-discs bearing the mark shown below:



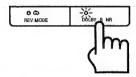
Using the Tape Deck

The tape deck has an Auto Tape Select feature, which can tell the difference between various types of cassette tape. It can distinguish between Normal (Type I) and CrO_o - High Position (Type II).

Playing a Tape

- 1. Press the EJECT button to open the cassette holder.
- 2. Insert a cassette and shut the cassette holder.
- If the tape was recorded with Dolby B noise reduction, press the DOLBY B NR switch.

The indicator light will go on.



- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
 "DOLBY" and the double-D symbol □□ are trademarks of Dolby Laboratories Licensing Corporation.
- 4. Start playback by either of the following methods:
- Press the

 or

 button.

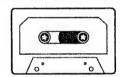
Press the button if the tape is wound mostly on the left side.





Press the \(\square\) button if the tape is wound mostly on the right side.





Select TAPE with the SOURCE SELECTOR button on the amplifier.

Note:

When cassettes are in both decks A and B, deck B starts first.

Stopping Playback and Ejecting the Tape

1. Press the STOP button on the tape deck.



- Press the EJECT button to open and remove the tape from the cassette holder.
- 3. Shut the cassette holder.

Note:

 If the system is turned off while a tape is playing, you may not be able to eject the tape. You will need to turn the system back on and press the EJECT button to open the cassette holder.

Stopping and Restarting Playback

1. Press the PAUSE button on the tape deck.

OH

Playback of the tape in deck B stops temporarily.

Note

The PAUSE button only applies to deck B.

16

1-16 (No. 20389)

Press the

or

button.

The restarts playback of the tape in deck B.

Changing the Playback Direction

- To change the playback direction during playback, press the

 or
 button.
 The other side of the tape will now play.
- To change the playback direction without starting playback, press the

 or
 button while also pressing the stop
 button.

Fast-Winding the Tape

Press the \blacktriangleleft or $\blacktriangleright \blacktriangleright$ buttons on the Tape Deck to advance the tape rapidly in the direction of the arrows.

Listening the Tape Continuously

You can set the tape deck up to play both sides of the tapes in decks A and B repeatedly.

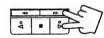
- 1. Insert cassettes into decks A and B.
- 2. Press the REV. MODE button on the cassette deck so the indicator lights.



- The tape deck will be placed in auto reverse mode, which means that it will play all of one side of the tape and then all of the other side.
- 3. Press the ⊲ or ⊳ button on deck to be started first.
- Now both sides of the both tapes will play repeatedly.
- After playback in reverse direction ends, the playing deck (A or B) will be switched to the other deck.
- If the tape deck is not placed in auto reverse mode, only one side of the tapes in deck A and B will play continuously.
- When you select TAPE with the SOURCE SÉLECTOR on the amplifier, deck B starts first.

Music Scanning

The music scan function will detect the blank segments between tracks. The blank should be about 4 seconds long for the music scan to be effective.



You can locate the beginning of the current track or next track quickly by pressing the playback button and the fast-winding button simultaneously.

Searching for Beginning of the Current Track

Searching for Beginning of the Next Track

Note

 The deck that is playing will stop if the music scan function is used on the other deck.

The music scan function is not effective:

- When the track being scanned contains an area of low sound level.
- · When the blank between tracks is short.
- · When there is noise, for example, a hum between tracks.

Recording a Tape

Recording Notes

- Deck A is used for playback only, and deck B is used for both recording and playback.
- To reduce hiss, use the Dolby B noise reduction system.
- Press the DOLBY B NR button. The indicator light will go on.
 To record on both sides A and B continuously, select reverse mode by pressing the REV. MODE button.
- The recording level is set automatically.
- If the small tabs on cassette tapes which prevent accidental erasure have been removed, the contents of the tape cannot be over-recorded or erased. To record or erase, cover the holes with adhesive tape. The tab in the upper left corner controls the side facing you; and the other tab controls the opposite side.
- If you are recording an AM broadcast and you hear interference, move the BEAT CUT switch on the rear panel of the cassette deck & amplifier unit from Position 1 (the normal mode) to Position 2.

Recording from Various Sources

- 1. Insert a cassette for recording into deck B.
- 2. Select the source you are recording from.
- 3. Press the Pause II button on the tape deck while simultaneously pressing the REC/REC MUTE button.
 This puts the deck B in REC/PAUSE mode.

O Ø OH

- 4. Start the source to be recorded.
- 5. Press the Play < or > button on the deck B to start recording. To record on both sides of tape, start recording in the forward (>>) direction.
- 6. To stop recording, press the Stop button.
- 7. To stop recording temporarily, press the Pause II button on deck

To restart recording again, press the Play button

or

or

or

...

Dubbing a Tape

Normal-speed Dubbing

- insert the cassette for playback into deck A and the cassette for recording into deck B.
- The type of tape (Normal or CrO_a) used for recording must be the same as that used for playback.
- With the Dolby system on, tapes are recorded in the same Dolby mode as the pre-recorded tape, regardless of whether the DOLBY B NR button is ON or OFF (the DOLBY B NR indicator remains off while dubbing is in progress.)
- 2. Press the Pause II button while simultaneously pressing the REC/ REC MUTE button on deck B.

This places deck B in REC/PAUSE mode.

- 3. Press the Play button < or > (depending on which side of the tape you want to record from) on deck A.
- The tape-to-tape recording starts.

- You cannot listen to another source during normal-speed dubbing.
- To stop normal-speed dubbing before end of either the playback or record tape, press the Stop \blacksquare buttons on decks A and B.

High-Speed Dubbing

- 1. Insert the cassette for playback into deck A and the cassette for recording into deck B.
- 2. Press the HIGH SPEED DUBBING button on the Tape Deck. The high-speed tape-to tape recording starts.



Note:

- You can listen to another source while high-speed dubbing is in progress
- To stop high-speed dubbing before reaching the end of either playback or record tape, press the Stop m button on deck B.
- If nearby television is on during high-speed dubbing, beeping noise may be recorded onto the record tape. So turn off the television or move it farther away.
- 3. Press the Stop button on deck A when you hear the end of a track to record from many different tapes (for example, to create a "Greatest Hits" tape).

Deck A stops playback, and deck B automatically creates about a 4 second blank, then pauses.

- If you don't want this blank, press the Pause # button on deck B before pressing the Stop B button
- 4. Put another tape in to deck A.
- 5. Press the HIGH SPEED DUBBING button on the Tape Deck. The high-speed dubbing restarts.
- 6. To record tracks from other tapes, repeat steps 3-5.

Note:

It should be noted that it may be unlawful to re-record prerecorded tapes, records, or discs without the consent of the owner of copyright in the sound recording and in any copyright musical or literary work embodied in that recording.

Erasing a Tape

- 1. Insert the tape to be erased into deck B.
- When you want to erase both sides, press the REV. MODE button so the indicator lights.
- 2. Press the Pause II button while simultaneously pressing the REC/ **REC MUTE button.** This puts the deck in REC/PAUSE mode.
- 3. Press the SOURCE SELECTOR button on the amplifier to select the TAPE.
- you want to erase) on deck B. The erasure of the tape begins.

Direct Recording from the CD Automatic Changer

Direct recording permits a tape deck to start recording automatically in synchronism with a CD Automatic Changer.

Insert the cassette for recording into deck B.

- If you wish to record on both sides of the cassette, press the REV. MODE button so the indicator lights.
- 2. Set the CD and magazine.
- 3. Press the CD REC START button on the Tape Deck.



- The CD Automatic Changer and the Tape Deck are activated, and recording begins with the first track of the CD.
- To stop direct recording, press the Stop button on deck B or the STOP/CANCEL button on the CD Automatic Changer.

If you press the Disc button, it or it button during recording, the track to be recorded is changed.

Recording CD Tracks in Auto-Edit Mode

In Auto-Edit mode, tracks from the CD will automatically be selected to determine which tracks should go on side A of the tape and which should go on side B.

The selection is based on the lengths of the tracks and the length of the

This ensures a proper "fit" of the tracks recorded on the tape. It prevents a track from being cut off when the end of the tape is reached.

- 1. Insert the cassette for recording in deck B.
- When you want to record both sides of a cassette, select reverse mode by pressing the REV. MODE button so the indicator lights.
- 2. Set the CD and magazine.
- 3. Press the STOP/CANCEL button on the CD Automatic Changer.
- 4. Press the EDIT button on the CD Automatic Changer and select the Auto Edit mode.

The A. EDIT indicator lights.



5. Enter the length of the tape to be recorded using the . and . a buttons.



For example: To set a period of 46 minutes, press the .

button four times and press the .

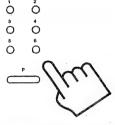
button six times.

6. Press the SIDE A/B button.



The CD Automatic Changer calculates which tracks should be placed on side A and which should be placed on side B.

7. Press the Disc button and specify the Disc No. of the disc to be



If you use the Remote Controller, press the CD CHANGER button and then specify one of 1 to P with a numeric key.

CD CHANGER	Ö	Ö	Ö	Ö
	5 5	Ö	Ö	

- To change the disc, specify the Disc No. of another disc again.
- To start recording the tracks on the selected CD with a track other the first, press the lower or low track with which recording is to start.



8. Press the MEMORY button on the CD Automatic Changer. The Auto Edit program is created automatically.

The last track to be recorded, the number of steps, and the remaining time of side B of the set tape are shown on the display. When you press the SIDE A/B button again, the last track of side A of

the set tape to be recorded, the number of steps, and the remaining time of the tape are shown on the display.
To check the Auto Edit contents, press the CALL button. Each time you

press the button, the track and step of the displayed side will show on



- Up to 16 tracks can be allocated for each side of the cassette.
- 9. Press the CD REC START button on the Tape Deck.



- The tape is automatically rewound to the beginning of side A, and then
- When the Tape Deck is set in the auto reverse mode, after the last track is recorded on side A, the tape deck high-speed-erases to the end of side A. Then it changes direction to side B and begins recording the remaining tracks.
- To stop recording, press the Stop button on deck B, or press the STOP/CANCEL button on the CD Automatic Changer.

Note:

During recording in the Auto-Edit Mode, do not operate the CD

To cancel the Auto-Edit mode, press the STOP/CANCEL button on the CD Automatic Changer, then press the PLAY MODE button.

Recording CD Tracks in Programmed-Edit Mode

You can make your favorite selections from 7 CD and record them on cassette.

- 1. Insert the cassette for recording in deck B.
- When you want to record both sides of a cassette, select reverse mode by pressing the REV. MODE button so the indicator lights.
- 2. Set the CD and magazine.
- 3. Press the STOP/CANCEL button on the CD Automatic Changer.
- Press the EDIT button on the CD Automatic Changer and select the Programmed Edit mode.

The P. EDIT indicator lights.



5. Enter the length of the tape to be recorded using the $\mbox{.}$ $\mbox{.}$ $\mbox{.}$ $\mbox{.}$ buttons.

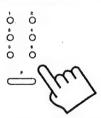


For example: To set a period of 46 minutes, press the the button four times and press the the button six times.

6. Press the SIDE A/B button.



- This tells the system that you will be choosing tracks to be recorded on side A of the tape.
- The length of time for one side of the tape is displayed. This is half of the total tape length. The total time for the tracks you choose for each side cannot exceed this time.
- If you do not press the SIDE A/B button, side A is automatically selected.
- Press the Disc button and specify the Disc No. of the disc containing the track to be recorded.



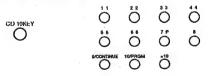
 If you use the Remote Controller, press the CD CHANGER button and then specify one of 1 to P with a numeric key.



- To change the disc, specify the Disc No. of another disc again.
- 8. Press the . . or . to button and select the track to be recorded.



 If you use the Remote Controller, press the CD 10KEY button, then specify a track with a numeric key.



9. Press the MEMORY button on the CD Automatic Changer.



- · Up to 16 tracks can be allocated for each side of the cassette.
- If the length of a track exceeds the remaining tape length, the time indication blinks on the display. Choose a different track number.
- To delete a track from the program, press the CALL button to display the track to be deleted. Press the STOP/CANCEL button on the CD Automatic Changer.
- 10.If you also want to record on the other side of the tape, press the SIDE A/B button and repeat steps 7-9.



 To check the Programmed Edit contents, press the CALL button. Each time you press the button, the track and step of the displayed side are shown on the display.

To modify a track in the program, press the CALL button, and call the track to be modified. Select a new Disc No. and track, then press the MEMORY button.

11. Press the CD REC START button on the Tape Deck.



- The tape is automatically rewound to the beginning of side A, and then recording begins.
- When the Tape Deck is set in the auto reverse mode, after the last track is recorded on side A, the tape deck high-speed-erases to the end of side A. Then it changes direction to side B and begins recording the remaining tracks.
- To stop recording, press the Stop button on deck B, or press the STOP/CANCEL button on the CD Automatic Changer.

To cancel the Programmed-Edit mode, press the STOP/CANCEL button on the CD Automatic Changer, then press the PLAY MODE button.

Note:

 The program cannot be edited during recording. To modify the program, cancel the Programmed-Edit mode, and perform step 4 and subsequent steps.

Note:

 During recording the Programmed-Edit mode, do not operate the CD Automatic Changer.

Creating a Blank During Recording

Use the Record Muting function when you do not want to record a section of the source.

 Press the REC/REC MUTE button on the Tape Deckat the beginning of the section you don't want to record.

OO

A blank of about 4 seconds is created on the cassette, and then the deck pauses.

- 2. To start recording again, press the ⊲ or ⊳ button.
- To create a blank of more than 4 seconds, hold down the REC.REC MUTE button. When you release this button, the deck pauses.
- When the source you are recording from is the CD Automatic Changer and the CD REC START button is used, the REC/ REC MUTE button will not function.
- The Remote Controller REC button dose not have the REC MUTE function.

Recording with the Timer

The Tape Deck can be set up to record a tape automatically. This is especially useful for recording broadcasts when you are not around, or late at night when you are asleep.

- 1. Insert a cassette for recording in to deck B.
- 2. Set the timer, by following the steps in "Setting the Timers".
- 3. Select one of the following sources:

TUNER TIMER REC
-- TIMER REC
Records TUNER preset stations
Records from the source selected before turning off the system.

Care and Handling

You must handle your cassette tapes, and tape deck carefully to preserve the full length of their life-times.

- If a tape is loose in its cassette, take up the slack by inserting a penr in one of the reels and rotating it.

 If a tape is loose, it may get stretched, cut, or caught in the cassette.
- Do not touch the tape surface.
- Do not store the tape:

 - In dusty places
 In direct sunlight or heat
 - In moist areas
 - On a TV or speaker
 - Near a magnet
- · The use of C-120 or thinner tape is not recommended.

Tape Deck

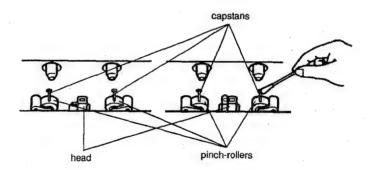
- If the head, capstans, or pinch-rollers of the tape deck become dirty, the
 - following may occur:

 Impaired sound quality

 Discontinuous sound

 - Fading

 - Incomplete erasure
 Impossible to record
- Clean the head, capstans and pinch-rollers with a cotton swab moistened with alcohol.



Using the Tuner

Listening the Broadcasts

The tuner can receive FM and AM broadcasts. Stations can be tuned in manually, automatically, or from preset memory storage.

Manual Tuning

1. Select the broadcast band you want to tune in by pressing the FM or AM button on the Tuner.

2. Press the TUNING/TIMER/DIMMER button (◄ or ▶) to tune in a

3. Hold down the TUNING/TIMER/DIMMER button to change the frequency rapidly, then tap the button to set the frequency precisely.

Automatic Tuning

- Select the broadcast band you want to tune in by pressing the FM or AM button on the Tuner.
- 2. Hold down the TUNING/TIMER/DIMMER button (< or ▶) for a moment, and then release the button.
- When a station is tuned in, the TUNED indicator lights up.

Note:

The Tuner will tune in the nearest strong station.

Presetting Stations in Memory

You can store up to 40 of your favorite radio stations (FM and AM) in memory, giving you quick, easy access to the stations.

- Select a band by pressing either the FM or AM button on the Tuner.
- 2. Press the TUNING/TIMER/DIMMER button (◄ or ▶) to tune in a station.
- Press the MEMORY button on the Tuner. The "MEMORY" indicator on the Tuner display blinks for 5 seconds.
- 4. Press the PRESET button (< or >) on the Tuner to assign a number (1-40) to the station, or enter a number (1-40) with the Remote Controller's numeric keypad.



Example:

To enter 7, press "7".
To enter 17, press "+10", then "7".
To enter 20, press "+10", then "10"

- Before using the numeric keypad, press the TUNER button.
- This will allow you to use the numeric keypad in the Tuner mode. If the "MEMORY" indicator has stopped blinking, press the MEMORY
- button again and repeat step 4.

 If the preset number you chose already has a station assigned to it, the old station will be replaced by the new one.

5. Press the MEMORY button again.

This stores that station in memory, with the preset number (1-40) you chose in step 4.

6. Repeat steps 1-5 for each station you want to store in memory with a preset number.

Caution! If the system is unplugged or if a power failure occurs, the preset stations stored in memory may be lost.

Cancelling Preset Stations

1. Press the CANCEL button on the Tuner. The "CANCEL" light on the Tuner display blinks for 5 seconds.

- 2. Press the PRESET button (< or >) on the Tuner to select the preset station you want to cancel.

 If the "CANCEL" light has stopped blinking, press the CANCEL button again and repeat step 2.
- 3. Press the CANCEL button again. The preset station will be cancelled.

Tuning in Preset Stations

- Press the PRESET button (< or >) on the Tuner to select the preset station you want. The preset station numbers are displayed sequentially each time you press the PRESET button.
- You can also select a station by entering its preset number on the Remote Controller's numeric keypad.
- Before using the numeric keypad, press the TUNER button. This will allow you to use the numeric keypad in the Tuner mode.

FM Reception Modes

There are two FM reception modes: AUTO and MONO.

Stations are tuned in with either STEREO or MONO, de-AUTO:

pending on the FM signal. Stations are tuned in with MONO only. This will reduce MONO: interference noise of weak stations and make the reception

sound better.

1. Press the FM MODE/ MUTE button on the Tuner to switch between the AUTO and MONO reception modes.

- 2. Press the FM MODE/MUTE button on the Tuner to the AUTO mode to receive the station in stereo.
- If a stereo broadcast is received when the FM band is selected, the "STEREO" light will be displayed on the Tuner
- If the FM Reception Mode is MONO, the "STEREO" light will not be displayed.

Using the Timers

Setting the Clock

The clock will be displayed even when the system is turned off. Pressing the TUNING/TIMER/DIMMER button (\blacktriangleleft or \blacktriangleright) will switch between two brightness levels for the clock.

 Press the CLOCK ADJUST button on the Tuner. The hours digits blink.



2. Press the TUNING/TIMER/DIMMER button (◀ or ▶) to set the hours digit.



- Press the ▶ button to increase the hour, and press the ◄ button to decrease the hours.
- To enter a new hour digit, press the CANCEL button and repeat step 2.
- 3. Press the MEMORY button on the Tuner.



This sets the hour portion of the time.

The minutes digits will blink.

- 4. Press the TUNING/TIMER/DIMMER button (< or >) to set the minutes digit.
- It's a good idea to set the minutes digits one minute ahead. Then you can start the clock when it reaches the set time exactly (according to the correct time from the TV, radio, or telephone).
- To enter a new minute digit, press the CANCEL button and repeat step
- 5. Press the MEMORY button.

The clock starts as soon as you press the MEMORY button.

Caution! If there is a power failure, or if you unplug the stereo, the clock time will be lost. Repeat steps 1-5 when power is restored.

- Using the TUNING/TIMER/DIMMER button to change luminosity of time display by two steps under STANDBY status.

 Increases luminosity
 - : Decreases luminosity

Setting the Timers

With the timers you can make tape recordings of broadcasts, CD's, or tapes when you're not around. You can also play these music sources at specified times without recording them.

- Use TIMER 1 and TIMER 2 record a radio broadcast when you're not home, or late at night when you're asleep.
- Use the DAILY timer to record a broadcast that occurs at the same time every day.
- The procedure for setting TIMER 1, TIMER 2 and the DAILY timer is the same. You need to tell the system:

 The name of the timer (TIMER 1 , TIMER 2, or DAILY).

 - The time the timer should turn the system on The time the timer should turn the system off.
 - The source the timer should turn on (Tuner, CD, or Tape).
 - The volume level that should be used during recording or playback.

Note:

The clock must be set to the correct time for the timers to be effective.

Caution! Do not operate the remote controller when you are programming the timer.

Choosing a Timer

Press the TIMER 1, TIMER 2, or DAILY button on the Tuner to select a timer. This puts the system in the Timer Setting mode. The information that the system expects next will blink on the display.

Setting the Start Time

1. Press the TUNING/TIMER/DIMMER buttons to set the hour that the system will turn on.

The ◀ button makes the hour number decrease, and the ▶ button makes the hour number increase

2. Press the MEMORY button.

This stores the hour portion of the start-time in memory.



- 3. Press the TUNING/TIMER/DIMMER buttons to set the minute.
- Press the MEMORY button. This stores the minute portion of the start-timer in memory.

Setting the Stop Time

- 1. Press the TUNING/TIMER/DIMMER buttons to set the hour that the system will turn off.
- Press the MEMORY button. This stores the hour portion of the stop-time in memory.
- 3. Press the TUNING/TIMER/DIMMER buttons to set the minute.
- 4. Press the MEMORY button. This stores the minute portion of the stop time in memory.

Selecting the Source

1. Press the TUNING/TIMER/DIMMER button to select a source.

Repeatedly pressing the ▶ button displays the sources in the following

Display	What it means
	Plays from whichever source was used just before turning off the system
TUNER	Plays FM or AM broadcast
TUNER TIMER REC	Records FM or AM broadcast
CD	Plays a CD
TAPE	Plays a tape
TIMER REC	Records from whichever source was used just before turning off the system
1 - A -	

Note:

- If you choose an FM or AM radio station as the source, select the preset station by pressing the PRESET button on the Tuner.
- 2. Press the MEMORY button. This stores the source to play or record in memory.

Setting the Volume

1. Press the TUNING/TIMER/DIMMER button to select a volume level. Repeatedly pressing the ▶ button displays the volume levels in the following order .:

Display	What It means
VOL	Volume set to the level used before shut the power
	off.
VOL 0	Volume off
VOL A	Volume barely on
VOL B	Volume at about a 1/4 turn of the volume knob
VOL C	Volume at about a 1/3 turn of the volume knob
Note:	The state of the solution of t

If the volume knob has already been turned half a turn or more when you set the volume level, you may not be able to set it to volume position 0, A, B, or C correctly.

2. Press the MEMORY button.

This stores the volume level for timed playback or recording in memory. To change your selection, press the CANCEL button and enter a new value.

Starting the Timer

Press the Timer button to start the timer. The timer you chose should light on the display.

Note:

 If the timer light does not light, the timer was not set properly, and you need to set the start time again.

To change your selection, press the CANCEL button and enter a new value.

Turning the System Off

Press the POWER button on the amplifier to turn the system off.



- The system is now programmed to turn on at the preset start-time, and play or record until the stop-time.
- It will record or play the preset source at the preset volume level until the top-time is reached.
- If you turn the system on before the start-time, the timer will still operate
 as programmed at the start-time.

Resetting the Timers

To reset a timer, press the button (TIMER 1, TIMER 2, or DAILY) on the Tuner twice. Now the timer is set again and will use the same start-time, stop-time, source, and volume level as before.

Setting the Wake-Up and Sleep Timer

You can set a timer so it turns on to wake you up or turns off when you go to sleep.

Setting the Wake-Up Timer

The wake-up timer serves as an alarm clock. It turns the system on after a programmed time lapse and plays the source that was used before the system was turned off. You can set a wake-up time from between 5 minutes and 12 hours.

- 1. Press the POWER switch on the amplifier so it is off.
- Press the WAKE UP/SLEEP button on the Tuner. This tells the system that you are going to set the wake-up time.
- Press the WAKE UP/SLEEP button repeatedly until the desired wake-up time appears.

WAKE UP/SLEEP

- Each time you press the WAKE UP/SLEEP button, the wake-up time lapse changes in the following order:
 - \rightarrow 0:05 \rightarrow 0:10 \rightarrow 0:15 \rightarrow 0:30 \rightarrow 0:45 \rightarrow 1:00 \rightarrow 1:30 \rightarrow 2:00 \rightarrow 3:00 \rightarrow (every hour) \rightarrow 12:00 \rightarrow (back to the beginning)
- If you make a mistake, press the CANCEL button on the Tuner and enter a new wake-up time with the WAKE UP/SLEEP button.

The system will now turn on after this time lapse.

- The wake-up timer has priority over TIMER 1, TIMER 2, and the DAILY timer.
 This means that if the start-time for one of the timers occurs before the
 - This means that if the start-time for one of the timers occurs before the wake-up time, the system will wait until the wake-up time to turn on.

Note

. If CD is the source that will be used, playback begins with the first track.

Setting the Sleep Timer

The sleep timer is used to turn off the system after a specified time lapse. With this timer you can fall asleep listening to music, knowing that the system will shut off automatically and not stay on all night. You can set the sleep timer to turn the system off from between 5 minutes and 2 hours.

- 1. Press the POWER switch on the Amplifler so it is on.
- 2. Start the source you want to listen to.
- 3. Press the WAKE UP/SLEEP button on the Tuner.

WAKE UP/SLEE

This tells the system that you are going to set the sleep time.

 Press the WAKE UP/SLEEP button repeatedly until the desired sleep time appears.

Each time you press the WAKE UP/SLEEP button, the sleep time lapse changes in the following order:

- \rightarrow 0:05 \rightarrow 0:10 \rightarrow 0:15 \rightarrow 0:30 \rightarrow 0:45 \rightarrow 1:00 \rightarrow 1:15 \rightarrow 1:30 \rightarrow 1:45 \rightarrow 2:00 \rightarrow (back to the beginning)
- If you make a mistake, press the CANCEL button on the Tuner and enter a new sleep time with the WAKE UP/SLEEP button.

The system will now turn off after this time lapse.

 The sleep timer has priority over TIMER 1, TIMER 2 and the DAILY timer.

This means that if the stop-time for one of the timers occurs before the sleep time, the system will wait until the sleep time before turning itself off.

Checking the Remaining Time

After setting the wake-up or sleep timer, you can check the time remaining until the system turns on (wake-up time) or shuts off (sleep time).

Press the WAKE UP/SLEEP button.

The remaining time is displayed for $5\,\mathrm{seconds}$. Then the clock time appears again.

Adding More Time

If you want more time before the wake-up timer turns the system on (or the sleep timer turns the system off), follow these steps: $\frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \int_{-\infty$

- 1. Press the WAKE UP/SLEEP button.
 - The remaining time is displayed for 5 seconds. Then the clock time appears again.
- Press the WAKE UP/SLEEP button again before the clock time is displayed.
- · Keep pressing this button until the desired additional time is reached.

Now the system will wait until the added amount of time until turning on or shutting off.

Cancelling the Time Setting

If you decide you don't want the system to wake you up or play music while you fall asleep, you can turn these timers off.

 To cancel the wake-up timer, press the POWER button on the Amplifier.

This turns the power on.

POWER CO STANDBYDISKS

To cancel the sleep timer, press the POWER button on the Amplifier.

This turns the power off.

Using the Remote Controller

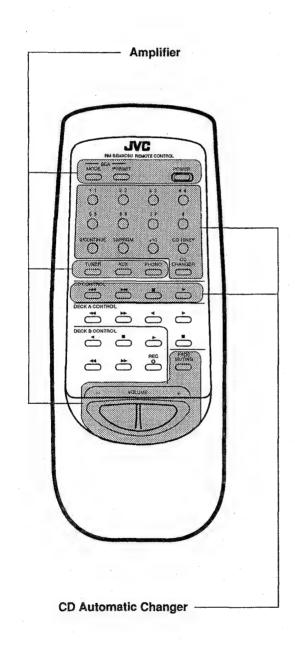
Operating the Remote Controller

You can use the Remote Controller to operate the system without leaving your chair. You can use it up to a distance of 23 feet.

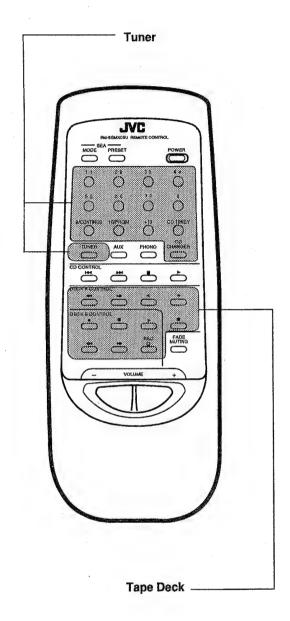
Point the Remote Controller at the remote sensor on the Amplifier.

Note:

 When the Tuner is selected as the source, and Cd OFF is displayed, only the PLAY button on the Remote Controller can be used.
 To use other buttons on the Remote Controller (for programming and other operations), select CD with the SOURCE SELECTOR, or press the CD PLAY button on the Remote Controller first.



Amplifier				
Turn on the main unit			Ó	POWER
Adjust volume level		(- wau	
Gradually reduce the volume to zero				FADE MUTING
Set the SOURCE SELECTOR of the ampl to TUNER	lifier			TUNER
Set the SOURCE SELECTOR of the ampl to AUX/VIDEO	ifier			AUX
Set the SOURCE SELECTOR of the ampl to PHONO	ifier			РНОМО
Select the SEA MODE				MODE
Select the SEA preset pattern				PRESET
CD Automatic Changer Play a CD		-		
Stop playback of a CD			(
Set the numeric keys to the DISC mode			CI	CD HANGER
Select the Disc No.	5 5 O	° ° °	3 3	ö
Place numeric keys in CD mode			C	D 10KEY
Select track number	5 5 5 9/CONTINUE	6 6 6 O	33 7.5 0	†† •
Scanning through the track number		144	٠,	▶



Change the PLAY MODE of the CD At n PROGRAM mode after press the CI	tomatic Cl	hanger ER button	10/PRĠM
Tape Deck			
DECK A			
Play a tape in forward direction			
Play a tape in reverse direction			₫
Stop playback			
Fast forwarding or fast rewinding		<u></u>	, 💍
DECK B			
Play a tape in forward direction			Ò
Play a tape in reverse direction			₫
Stop playback			
Fast forwarding or fast rewinding		ð	, 📛
Recording in forward direction		AEC	+ 🖒
Recording in reverse direction	•	REC O	+ 💍
Stopping recording			
Tuner	•		
Selecting Tuner mode			TUNER
	ö	22	33 44 O O
	5 5	Ö	0 0

Note:
Where "+" is indicated, press and hold the first button illustrated, then press the second.

Troubleshooting

Sympton	Possible Cause	Action
No sound is heard.	Speakers are connected incorrectly.	Re-connect speakers (See "Connecting the System Component")
Impossible to record.	Tape tabs are broken out.	Cover tabs with adhesive tape.
Interference during broadcast.	Antenna is disconnected. The loop antenna is too close to the system.	Re-connect the antenna securely. Change the position and direction of the loop antenna.
CD Sound is discontinuous.	The CD is scratched or stained.	Clean or replace the CD.
The Remote Controller cannot be operated.	There is an obstruction blocking the remote sensor on the amplifier. The batteries of the Remote Controller are weak.	Remove the obstruction. Replace the batteries.
The magazine does not eject when the EJECT button is pressed.	The power is off. The magazine has not been inserted correctly.	Turn on the system. Push the magazine all the way in and try pressing the EJECT button again.
A selection on a CD was not played.	The CD is in the tray upside down.	Put the CD in the tray with the label side facing up.
Operations are disabled.	The built-in microprocessor may malfunction due to external electrical interference.	Unplug the system, then plug it back in.
The cassette holder cannot be opened.	The system was turned off because the timer was operated while the tape was running.	Turn on the system.

Specifications

Double Cassette Amplifier AMPLIFIER SECTION

Output Power

30 watts per channel, min. RMS, both channels driven into 8 ohms, from 40Hz to 20kHz with no more than 0.9% total harmonic distortion.

Total Harmonic Distortion at Half-Rated Power Input Sensitivity/ Impedance (1kHz)
AUX/VIDEO
PHONO

250mV/47 k ohms 3mV/47 k ohms

0.07%

Pre-programmed SEA settings

51 (5 modes x 10 patterns + FLAT mode)

CASSETTE DECK SECTION Frequency Response

Normal:

Wow and Flutter (WRMS) Dimensions (W x H x D)

Weight

30 - 16,000Hz 30 - 15,000Hz 0.09%

10-7/8 x 7-1/4 x 12-5/16 inches (275 x 183.5 x 312 mm) 12.3 lbs

(5.6 kg)

CD Automatic Changer/Tuner

CD AUTOMATIC CHANGER SECTION 7 discs 96 dB CD capacity **Dynamic Range** Signal-to-Noise Ratio

102 dB Wow and Flutter Unmeasurable

TUNER SECTION

FM

Tuning range 87.5 MHz - 108.0 MHz Usable Sensitivity 0.95µV/75 ohms (10.8dBf)

Signal-to-Noise Ratio (IHF-A Weight) MONO

STEREO

73 dB

Tuning range Dimensions (W x H x D) 530 kHz - 1,710 kHz 10-7/8 x 7-1/4 x 12-1/4 inches (275 x 183.5 x 311 mm) 9.3 lbs

(4.2 kg)

80 dB

General

Weight

Power Requirements Power Consumption

AC 120 V \sim 60 Hz

Accessories

FM Antenna Cable1 AM Loop Antenna1 MAGAZINE Remote Control Unit Batteries .. (UM-4/AAA (24F)/R03)

Design and specifications subject to change without notice.

Description of ICs

MN171202JHP (IC901): System controller

1.Terminal Layout

• • • • • • • • • • • • • • • • • • • •	_, _			
VDD	1		64	OSC1
S1	2	•	63	OSC2
S2	3		62	VSS
\$3	4		61	X2
S4	5		60	X1
\$5	6		59	KI3
S6	7		58	KI2
\$7	8		57	KI1
\$8	9		56	KI0
S9	10		55	ACO .
\$10	11		54	SPK
\$11	12		53	S.BASS IND
\$12	13		52	TAPE IND
\$13	14	MN171202JHP	51	D.RST
S14	15		50	S.MUTE
SURR.IND	16		49	D.INH
\$25	17		48	DCS.OUT
VPP	18		47	DCS.IN
VOL UP	19		46	INH
VOL DOWN	20		45	RM. IN
1G	21		44	PRT. IN
2G	22		43	RST
3G	23		42	SPI SCK
4G	24		41	SPI CS
5G	25		40	SPI DATA
6G/KO0	26		39	STBY IND
7G/K01	27		38	S.OUT
8G/KO2	28		37	S.STB
9G/KO3	29		36	SCK
10G/KO4	30		35	M.STB
PHONO IND	31		34	CD IND
AUX IND	32		33	TUNER IND
	L			1

2.KEY Matrix

	KEY IN 0 (PIN56)	KEY IN 1 (PIN57)	KEY IN 2 (PIN58)	KEY IN 3 (PIN59)
KEY OUT 0 (PIN26)	MSEC	FLAT	DEMO	DISPLAY
KEY OUT 1 (PIN27)	PATTERN ▶	PATTERN	POWER	
KEY OUT 2 (PIN28)	MODE	MODE ▼	-	
KEY OUT 4 (PIN30)	SOURCE ◀	SOURCE ►	**************************************	_

R Terminal Description

	rminal De	scri	ption		·		
Pin NO.	Symbol	1/0	Function and Operations	Pin NO.		1/0	Function and Operations
1	VDD		Power supply	33	TUNER IND	0	Indication signal output
2	S1	0	Segment control signal	34	CD IND	0	Indication signal output
3	S2	0	Segment control signal		M.STB	0	Strobe signal for IC662(Tone selector)
4	S3	0	Segment control signal		SCK	0	Clock output for IC662 and IC601
5	S4	0	Segment control signal	37	S.STB	0	Strobe signal for IC601 (Source selector)
6	S5	0	Segment control signal	38	S.OUT	0	Data for IC601 and IC662
7	S6	0	Segment control signal	39	STBY IND	0	Indication signal output
8	\$7	0	Segment control signal	40	SPI DATA	1/0	Peak level data / Control data for IC951
9	S8	0	Segment control signal	41	SPI CS	0	Chip select signal for IC951
10	S9	0	Segment control signal		SPI SCK	0	Clock output for IC951
11	S10	0	Segment control signal	43	RST	I	Reset signal input
12	S11	0	Segment control signal	44	PRT. IN	1	Detection for protector
13	S12	0	Segment control signal	45	RM. IN	1	Remote control signal input
14	\$13	0	Segment control signal	46	INH	1	Inhibit signal input
15	\$14	0	Segment control signal	47	DCS IN	1	Compulink signal input
16	SURR.IND		Non connection	48	DCS OUT	0	Compulink signal output
17	\$25	0	Segment control signal	49	D.INH	0	Power control signal to deck controller
18	VPP	T	Power supply for fl display	50	S.MUTE	0	Muting signal when changing the input
19	VOL UP	0	Volume control signal	51	D.RST	0	Reset signal for deck controller
20	VOL DOWN	0	Volume control signal	52	TAPE IND	0	Indication signal for 'TAPE'
21	1G	0	Grid control signal	53	S.BASS IND	0	Indication signal for 'SUPER BASS'
22	2G	0	Grid control signal	54	SPK	0	Speaker relay control signal
23	3G	0	Grid control signal	55	ACO	0	Regulator control signal
24	4G	0	Grid control signal	56	KIO.	1	Key martrix input
25	5G	0	Grid control signal	57	KI1	Τ	Key martrix input
26	6G/KO0	0	Grid control signal (Key matrix out)	58	KI2	T	Key martrix input
27	7G/KO1	0	Grid control signal (Key matrix out)	59	KI3	1	Key martrix input
28	8G/KO2	0	Grid control signal (Key matrix out)	60	X1		Connected to GND
29	9G/KO3	0	Grid control signal (Key matrix out)	61	X2		Non connection
30	10G/KO4	0	Grid control signal (Key matrix out)	62	VSS	-	GND
31	PHONO IND	0	Indication signal output	63	OSC2		Oscillation terminal
32	AUX IND	0	Indication signal output	64	OSC1		Oscillation terminal

HD614081SC34 (IC491): Deck controller

1.Terminal Layout

NR.LED **REV.MODE LED** A.SPEED UP B.SPEED UP MUSIC IN B.FWD.REEL.MOTOR B.REV.REEL.MOTOR B.REV.CAM.MOTOR B.FWD.CAM.MOTOR A.CAM.SW-2 A.CAM.SW-1 A.CAM.SW-0 A.PULSE IN B.CAM.SW-2 B.CAM.SW-1 B.CAM.SW-0 B.PULSE IN POWER OFF IN GND A.FWD.REEL MOTOR A.REV.REEL MOTOR A.REV.CAM MOTOR A.FWD.CAM MOTOR CHIP SELECT (EXP/DO)
PLAY BACK EQ
B.PLAY/PAUSE PLAY MUTE CAP.MOTOR ON REC FADE CTRL. BCR + 5V

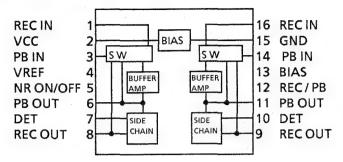
1		64	A.FWD.LE
2		63	A.REV.LE
3	·	62	B.FWD.LE
4		61	B.REV.LED
5		60	REC LED
6		59	NR.REC
7		58	BIAS
8		57	NR.OFF
9		56	REC.MUT
10		55	DCS IN
11		54	DCS OUT
12		53	GND
13		52	4.19MHz
14	HD614081SC34	51	4.19MHz
15	1120110013031	50	TO VCC
16		49	RESET IN
17		48	KEY&SW.
18		. 47	KEY&SW.
19		46	KEY&SW.
20	•	45	KEY&SW.
21		44	KEY OUT-
22		43	KEY OUT-
23		42	KEY OUT-
24	Ne	41	KEY OUT-
25		40	SW OUT-2
26		39	SW.OUT-
27		38	HI-SPEED
28		37	HC
29		36	нм
30		35	HN
31		34	LC
32		33	LM

ΕĐ .ED ΤE OSC IN OSC IN /.IN-4 /.IN-3 v.IN-2 v.IN-1 T-4 T-3 T-2 T-1 -2 DUBBING 2. Key Matrix KEY IN 1 KEY IN 2 KEY IN3 KEY IN4 (PIN45) (PIN46) (PIN47) (PIN48) KEY OUT 1 AH A A 44 A (PIN41) **KEY OUT 2** В В ◀ B 📢 B 🕨 (PIN42) **KEY OUT 3** B 🌑 В В (PIN43) **KEY OUT 4** REV. ADB DOLBY CD.REC (PIN44) MODE SW OUT 1 В (PIN39) CrO₂ CrO₂ SW OUT 2 В REV **FWD** Α **PACK PACK** (PIN40) REC REC

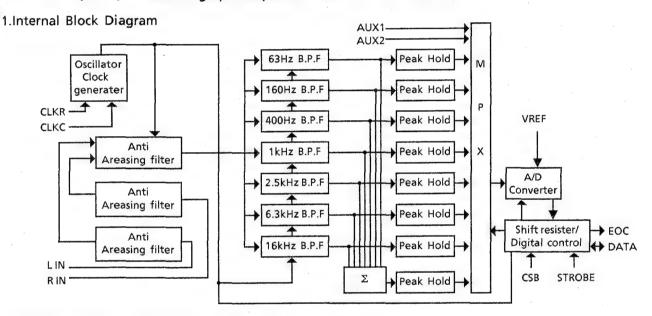
Terminal Description

3.Te	rminal De	scr	ption				
Pin NO.	Symbol	1/0	Function and Operations	Pin NO.	Symbol	1/0	Function and Operations
1	NR.LED	0	NR indication signal output	33	LM	0	Rec. EQ control (Normal speed / Metal)
2	REV.MO.LED	0	Reverse mode indication signal output	34	LC	0	Rec. EQ control (Normal speed / CrO ₂)
3	A.SPEED UP	0	Deck A reel speed control signal output		HN .	0	Rec. EQ control (High speed / Normal)
4	B.SPEED UP	0	Deck B reel speed control signal output		нм	0	Rec. EQ control (High speed / Metal)
5	MUSIC IN	Τ	Music scan signal input	37	нс	0	Rec.EQ control (High speed / CrO ₂)
6	B.FWD REEL	0	Deck B reel motor control signal (forward)	38	HI-SPEED	0	Capstan&EQ control (High speed dubbing)
7	B.REV.REEL	0	Deck B reel motor control signal (reverse)	39	SW OUT-1	0	Leaf switch signal output
8	B.REV.CAM	0	Deck B cam motor control signal (reverse)	40	SW-OUT-2	0	Leaf switch signal output
9	B.FWD.CAM	0	Deck B cam motor control signal (forward)	41	KEY OUT-1	0	Key matrix output
10	A.CAM SW-2	1	Cam switch signal from Deck A	42	KEY OUT-2	0	Key matrix output
11	A.CAM SW-1	T	Cam switch signal from Deck A	43	KEY OUT-3	0	Key matrix output
12	A.CAM SW-0	1	Cam switch signal from Deck A	44	KEY OUT-4	0	Key matrix output
13	A.PULSE IN	1	Deck A reel pulse input	45	KEY&IN-1	1	Key matrix & leaf switch input
14	B.CAM SW-2	1	Cam switch signal from Deck B	46	KEY&IN-2	1	Key matrix & leaf switch input
15	B.CAM SW-1	1.	Cam switch signal from Deck B	47	KEY&IN-3	T	Key matrix & leaf switch input
16	B.CAM SW-0	1	Cam switch signal from Deck B	48	KEY&IN-4	1	Key matrix & leaf switch input
17	B PULSE IN	Ι	Deck B reel pulse input	49	RESET IN	TT	Reset signal from system controller
18	POWER OFF IN	1	Power off signal input	50	то усс	T	Connected to +5V
19	GND		Ground	51	osc		Clock oscillation
20	A.FWD.REEL	0	Deck A reel motor control signal (forward)	52	osc		Clock oscillation
21	A.REV.REEL	0	Deck A reel motor control signal (reverse)	53	GND	T	Ground
22	A.REV.CAM	0	Deck A cam control signal (reverse)	54	DSC OUT	0	Compulink signal output
23	A.FWD.CAM	0	Deck A cam control signal (forward)	55	DCS IN	T	Compulink signal input
24	CHIP SELECT		Connected to GND	56	REC.MUTE	0	Recording mute control signal
	PLAYBACK EQ	0	Playback equalizer control signal	57	NR.OFF	0	NR on/off control signal
26	B.PLAY/PAUSE	0	Deck A / B select signal	58	BIAS	0	Bias circuit on/off control signal
27	PLAY MUTE	0	This terminal is low during playback	59	NR.REC	0	NR rec/play control signal
28	CAP,MOTOR	0	Capstan motor on/off control signal	60	REC LED	0	Recording indication signal
29	REC	0	Recording control signal	61	B.REV LED	0	Deck B reverse LED indication signal
30	FADE CONT.		Non connection	62	B.FWD LED	0	Deck B forward LED indication signal
31	BCR	0	Bias current control signal (CrO ₂ : H)	63	A.REV LED	0	Deck A reverse LED indication signal
32	+ 5V		Power supply (+5V)	64	A.FWD LED	0	Deck A forward LED indication signal

HA12136A (IC351): Noise Reduction Amplifier



XR1097CP(IC951): 7-channel graphic equalizer filter with A/D converter



2.Terminal Layout

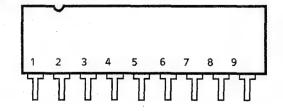
		∇	
C\$B	1	14	VDD
STB	2	13	CLKR
DATA	3	12	CLKC
EOC	4	11	GND
VREF	5	10	LIN
AUX2	6	9	RIN
AUX1	7	8	VSS
	L		

3. Terminal Description

			cription				
Pin No	Symbol	1/0	Function	Pin No	Symbol	1/0	Function
1	CSB	1	Chip select	8	VSS		– 5V
2	STB	1	Strobe signal	19	RIN	I	Sound signal input
3	DATA	1/0	Data input / output	10	LIN	_	Non connection
4	EOC		Not used	11	GND	-	GND
5	VREF	1	A/D converter reference voltage	12	CLKC		A capacitor is connected
6	AUX2	1	Non connection	13	CLKR		A resister is connected
7	AUX1	1	Non connection	14	VDD		+ 5V

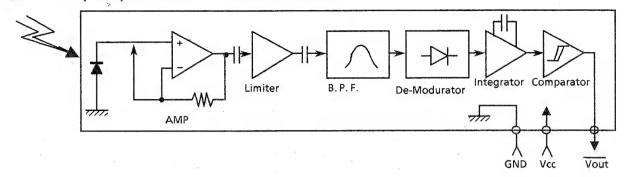
BA6218 (IC451,452,453,454)

: Reversible motor driver

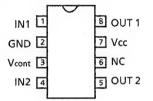


Pin 3(IN)	Pin 1(IN)	Pin 7(OUT)	Pin 9(OUT)
Н	L	L	Н
L .	Н	Н	L
Н	Н	L	L
L	L	OPEN	OPEN

SPS-420-1 (IC922): Receiver for Remote Controller

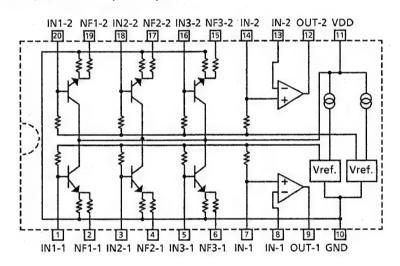


■ LB1639-CV (IC972): Motor Driver



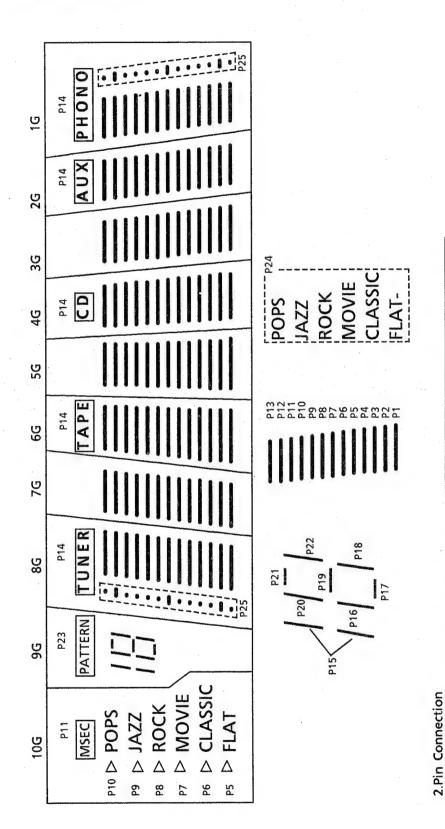
IN 1	IN 2	OUT 1	OUT 2	MOTOR
Н	L	Н	Ļ	CLOCKWISE
L	Н	L	Н	COUNTER-CLOCKWISE
н	Н	OFF	OFF	WAITING
L	L	OFF	OFF	WAITING

M5243P (IC661): S.E.A. Graphic Equalizer



Internal Connections of the FL Display

ELU0001-146 (FL901)



Terminal No		7	1 2 3 4 5 6 7 8 9 10 11 12 13 14	4	S	9	_	œ	<u>о</u>	9	=	12	13	14		-				_
ELECTRODE	Ħ	F1	F1 F1 NP NP P1 P2 P3 P4 P5 P6 P7 P8 P9 P10	NP	P1	P2	P3	P4	P5	9е	P7	P8	P9	P10						
Terminal No 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34	15	16	17	18	19	20	21	22	23	24	25	56	27	28	59	30	31	32	33	34
ELECTRODE P11 P12 P13 P14 NP P23 P22 P21 P20 P19 P18 P17 P16 P15 NP P24 P25 NP NP NP NP	P11	P12	P13	P14	NP	P23	P22	P21	P20	P19	P18	P17	P16	P15	NP	P24	P25	ΝP	ΔN	N D
Terminal No							35	36	37	35 36 37 38 39 40 41 42 43 44 45 46 47 48	39_	40	41	42	43	44	45	46	47	48
ELECTRODE							10G	96	8G	10G 9G 8G 7G 6G 5G 4G 3G 2G 1G NP NP F2 F2	99	56	4G	3G	2G	16	NP	NP	F2	F2
ote: F:	Fila	F:Filament	#		ž	NP:No Pin	Pin			Ü	G: Grid	77			Ġ.	P: Anode	qe			

Disassembly Procedures

- Removing the metal cover
 - 1. Remove the 2 screws fastening both sides of the metal cover and 4 screws fastening the rear side.
 - 2. Lift the back of the metal cover spreading both sides to remove.
- Removing the front panel assembly
 - 1. Remove the metal cover.
 - 2. Cut the tie bands ® and ® (Fig. 3,4).
 - 3. Remove the screw (A).
 - 4. Remove the volume knob and the nut fastning the volume.
 - 5. Disconnect the connectors P331, P332, P333, P334 (Cassette deck CB), P321 (Head phone CB), P612 (Input selector CB) and the flat wire JB901 (System control CB) and P972 (Main volume CB) (Fig. 2, 3,4).
 - 6. Release the 3 hooks ① to remove the front panel assembly from the chassis, and remove the main volume circuit board from the front pannel (Fig. 1).
- Removing the heat sink cover.
 - 1. Remove the 2 screws (1) (Fig. 5).
 - 2. Remove the cover.
- Removing the rear panel
 - 1. Remove the metal cover.
 - 2. Remove the heat sink cover.
 - 3. Remove the screws (G) (Fig. 5).
 - 4. Release the both hooks to remove the rear panel (Fig. 3,4).
- Removing the Power IC
 - 1. Remove the metal cover.
 - 2. Remove the rear panel.
 - 3. Remove the 2 circuit boards (ENJ-063-4,ENJ-063-2) with heat sink.
 - 4. Remove the defective IC.

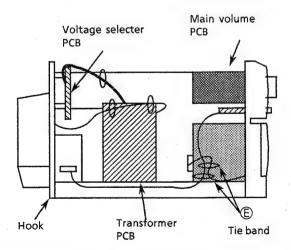


Fig. 3 Left side view

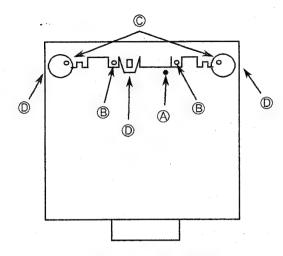


Fig. 1 Bottom view

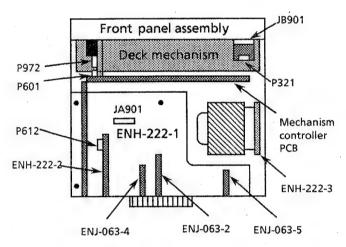


Fig. 2 Top view

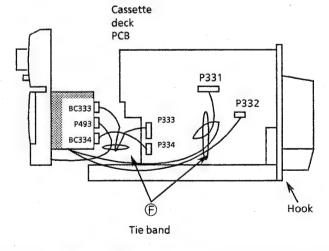


Fig. 4 Right side view

DX-MXC5BK

- Removing the front circuit board assembly
 - 1. Remove the metal cover.
 - 2. Remove all the knobs.
 - 3. Remove the front panel assembly.
 - 4. Remove the screw ① to remove the headphone circuit board (ENB-165-6).
 - Remove the 8 screws ① fixing the assembly (Fig. 6).
 The fasteners can be released.

Removing the mechanism assembly

- 1. Remove the metal cover.
- 2. Remove the front panel assembly.
- 3. Disconnect the connectors P492,493 (Fig.6).
- 4. Remove the 8 blue colored screws ® and ® fixing the mechanism assembly (Fig. 6).
- 5. Open the cassette doors to remove the cassette mechanism assembly.

Note:

The cassette mechanism is grounded through the bottom plate.

Therefore, connect the chassis and the mechanism assembly with some wire when operating.

This mechanism is also designed for pack sensing, then use a cassette tape for checking.

Removing the cassette holder

- 1. Remove the cassette mechanism assembly.
- 2. Remove the dampers (Fig. 7).
- 3. Remove the holder spring from the holder bracket (Fig. 7).
- 4. Remove the cassette holder from the holder bracket.

Removing the cassette lids

Open the doors and slide the cassette lids as shown in fig.8.

Removing the cassette operation circuit board

- 1. Remove the cassette mechanism assembly.
- 2. Remove the cassette holder.
- 3. Remove the 4 screws B and C (Fig. 1) and remove the holder brackets.
- 4. Remove the screw fastening the eject knob holder.
- 5. Remove the 4 screws fastening the circuit board.

Removing the mechanism controller circuit board

- 1. Remove the front panel assembly.
- 2. Remove the screw ① and release the hook ⑩ (Fig.6).
- 3. Disconnect some flat wires and connectors.

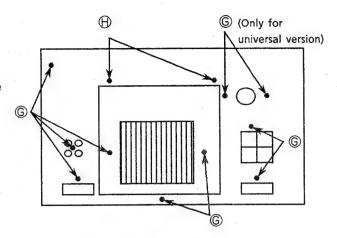


Fig. 5 Rear view

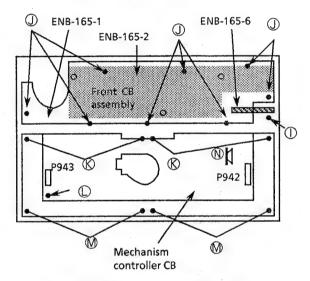


Fig. 6 Bhind the front panel

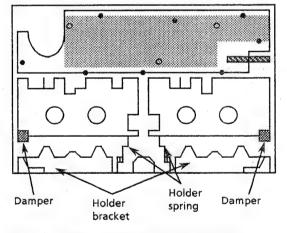


Fig. 7 After removing the mechanism assembly

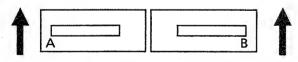


Fig. 8 Cassette lids

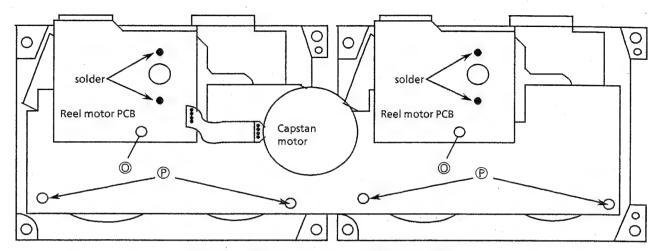


Fig. 9 Rear view of the cassette mechanism

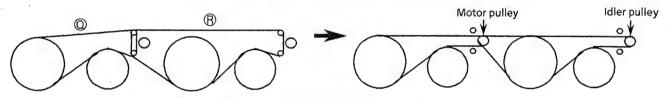


Fig. 10 How to put the belts

Removing the reel motor circuit board

- 1. Remove the mechanism assembly.
- 2. Remove the mechanism controller circuit board.
- 3. Remove the screws © fixing the reel motor circuit boards (Fig.9).
- 4. Unsolder the reel motor terminals.
- 5. Remove the circuit board.

Removing the flywheel

- 1. Remove the mechanism assembly.
- 2. Remove the mechanism controller circuit board.
- 3. Remove the reel motor circuit boards.
- 4. Remove the 4 screws P fixing the bracket on which capstan motor is installed (Fig. 9).
- 5. Remove the bracket and the belts.
- 5. Release the flywheels.

Installing

Install the flywheels and the belts to the mechanism as shown in fig.10. (When putting the belts, put the belt © first.)
At last, install the bracket with the capstan motor to put the belts on the pulleys.

Removing the cam switch circuit board

- 1. Remove the flywheels.
- Release the hooks fixing the cam switch circuit board to remove the circuit board.
 (When installing the cam switch circuit board, assemble the circuit board so that part \$\infty\$ meets part \$\mathbb{T}\$. Fig. 11)

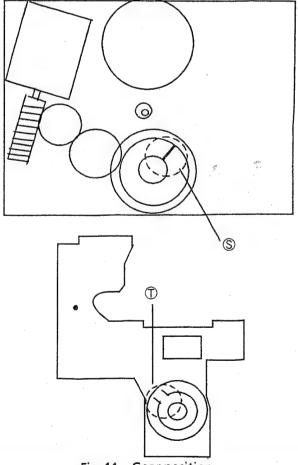


Fig. 11 Gear position

Removing the head assembly

- 1. Remove the cassette mechanism assembly.
- 2. Unsolder the flexible wire on the relay circuit board, and remove the 2 screws \heartsuit fixing the head assembly (Fig. 13,14).
- * Refer to fig.12 when installing.

Removing the pinch roller arm assembly

- 1. Release the return springs from the hooks (Fig. 14).
- 2. Remove the hooks fixing the pinch roller arm assembly to remove the pinch roller assembly (Fig. 13).

Removing the reel motor

- 1. Remove the mechanism assembly.
- 2. Remove the reel motor circuit board.
- 3. Remove the frarm assembly (Fig. 14).
- 4. Remove the screws ① fixing the motor.
- 5. Release the hooks fixing the motor to remove the motor.

Removing the capstan motor

- 1. Remove the mechanism assembly.
- 2. Remove the mechanism controller circuit board.
- 3. Remove the reel motor circuit board.
- 4. Remove the 4 screws P fixing the bracket (Fig. 9).
- 5. Release the hooks fixing the bracket and remove the capstan motor with the bracket.
- 6. Remove the 2 screws fixing the motor on the bracket to remove the motor from the bracket.

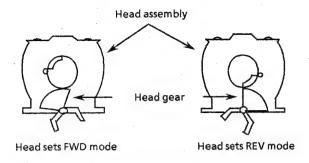


Fig. 12 Bottom view of the head assembly

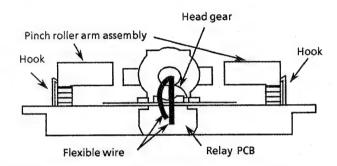


Fig. 13 Bottom view of the cassette mechanism

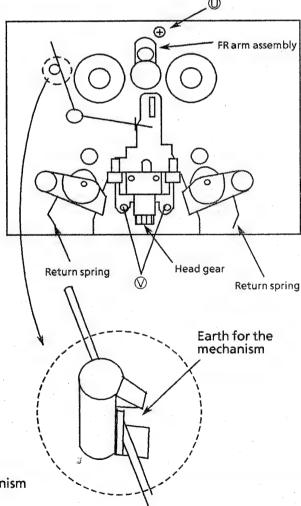


Fig. 14 Front view of the cassette mechanism

Adjustment Procedures (Cassette Deck)

1. Measuring instruments for Adjustment

Audio frequency signal generator (0dbs output at the 600 ohm output terminal from 50Hz to 20KHz)

Electronic voltmeter

Frequency counter

Wow & Flutter meter

Distortion Meter with band pass filter

Attenuator (600 ohm impedance)

A resistor with 600Ω

Standard Tape

0dBs = 0.775V

			0000 - 017754	
Tape No.	Frequency	Level (Wow & Fkutter)	Purpose	
VTT-703L	10kHz	– 10dBs	Head azimuth , Frequency Response	
VTT-712	3000Hz	OdBs 0.025%WRMS	Tape Speed , Wow & Flutter	
VTT-724	1kHz	– 4dBs	Standard Level	
TMT-6447		_	Blunk Skip	
TMT-6247, TMT-6237			Music Scan	
TMT-7046		-	Recording standard Normal: UR	
AC-712	<u> </u>	_	Recording standard METAL: MA	
AC-513	-	<u> </u>	Recording standard CrO ₂ SA	
TW-2111, TW-2121	_	-	Forward/reverse play torque measuring	
TW-2231			Feed forward/rewind torque measuring	
C-120 Tape	_		Comfirming the tape running	

2. Adjustment and repairing the mechanism

Item	Adjustment method	Standard value	Remarks
Head azimuth	 Deck A Connect an electronic voltmeter to the DOLBY TP(figure 3) to playback VTT-703L. Adjust screw ③ so that the indication of the voltmeter becomes maximum when PLAY (►) is pressed. Adjust screw ⑤ so that the indication of the voltmeter becomes maximum when PLAY (◄) is pressed. Deck B Adjust screw ⑥ so that the indication of the voltmeter becomes maximum when PLAY (►) is pressed. Adjust screw ⑥ so that the indication of the voltmeter becomes maximum when PLAY (►) is pressed. Adjust screw ⑥ so that the indication of the voltmeter becomes maximum when PLAY (◄) is pressed. After making the adjustment,apply screw lock to prevent screws ③, ⑤, ② and ⑥ coming loose. 	Maximum	 Refer to figure 1. When the specified characteristic cannot be obtained because of head wear, excessive magnetization, etc., replace the head assembly and adjust the head azimuth. Also, perform the electric adjustment. When there is the difference of more than 3 ~ 4 dB between left and right output levels, replace the head assembly to avoid complaints.
Playback torque	Measure the torque in the playback mode by the torqu meter.	26 ~ 62 g-cm	When the standard torque cannot be obtained replace the FR arm assembly or motor.
Fast forward torque	Measure the torque in the fast forward mode by the torqu meter.	80 ~ 200 g-cm	When the standard torque cannot be obtained, replace the FR arm assembly or motor.
Rewind torque	Measure the torque in the rewind mode by oy the torqu meter.	80~ 200 g-cm	
Wow & flutter	1. Connect thewow & flutter meter to the DOLBYTP(figure 3) and play back VTT-712	-	As a complaint may occur if the wow & flutter fluctuates by 0.1% even though it is allowed in the standard, repairing is required.



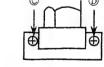


Figure 1

Deck B

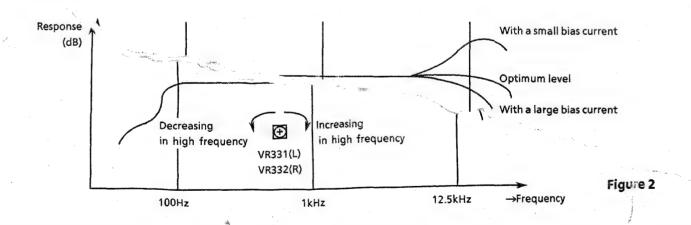
3. Electrical Adjustments (Make the following adjustments after adjusting the head azimuth.)

In principle, the adjustments should be made in the following sequence. Set the NR switch to OFF and the BEAT CUT switch to "1".

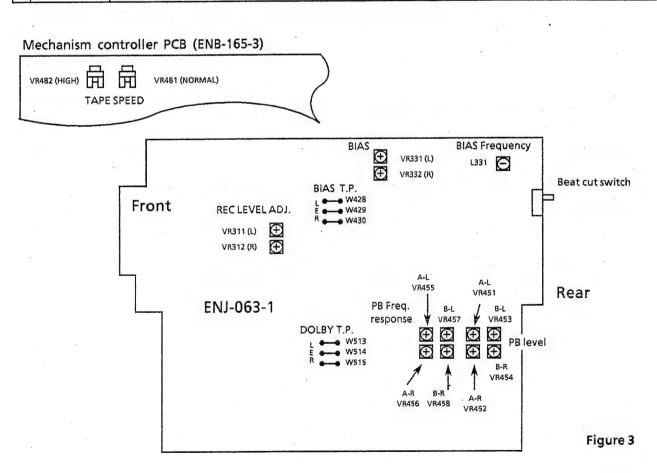
Adjustments marked with an asterisk (*) should always be made after the head is replaced

0dBs = 0.775V

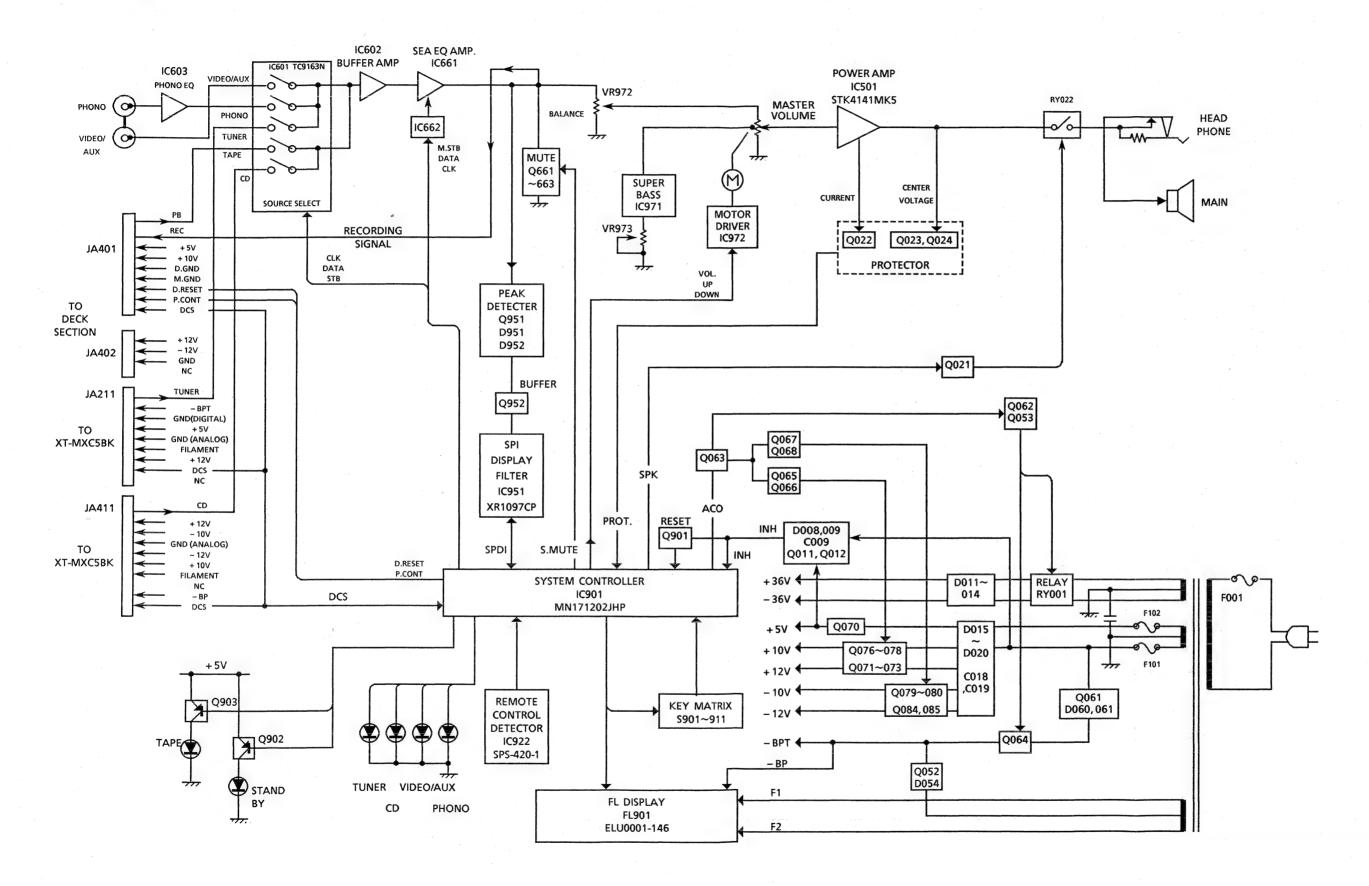
	ltem	Adjustment Method	Adjustment Location	Standard Value	Remarks
-	Tape Speed	 Connect a frequency counter to the DOLBY TP(figure 3) and play back VTT-712. Normal speed Adjustment Mechanism B Play back deck B to adjust the semi-fixed resistor VR481 on ENB-165-3. Mechanism A Play back deck A to confirm that the difference between deck A and deck B is within ±51Hz. High-speed adjustment Mechanism B Play back deck B and adjust the semi-fixed resistor VR482 on ENB-165-3. 	VR481 VR482	3,000 Hz ± 10Hz 6,000Hz ± 20Hz	Adjust the normal speed first, and perform the high speed adjustment.
* 2	Standard level (Playback Level)	1. Connect an electronic voltmeter to the DOLBY TP (figure 3). Play back VTT-724 (1 kHz: -4dBs) to adjust the semi-fixed resistors.	Deck A L: VR451 R: VR452 Deck B L: VR453 R: VR454	- 5.5dBs (411mV) ± 1dB	 The playback level varies when the head is replaced so should be adjusted. Use an electronic voltmeter with an impedance of 100 kΩ or more.
* 3	Playback Frequency Response	 Connect an electronic voltmeter to the DOLBY TP (figure 3). Play VTT-703L (10kHz: -10dBs) and adjust semi-fixed resistors to obtain the standard values. 	Deck A L: VR455 R: VR456 Deck B L: VR457 R: VR458	- 11.5dBs (206mV) ±3dB	_
* 4	Recording Bias Frequency	Connect a frequency counter to the BIAS TP(figure 3), and perform a recording to adjust bias frequency.	L331	100 kHz ±5 kHz	Set the BEAT CUT SWITCH to "1".
* 5	Record / Play Frequency Response (Bias current)	 Supply 1kHz and 12.5kHz with 30mV signals to VIDEO/AUX terminals respectively. to record them. Connect an electronic voltmeter to the DOLBY TP (figure 3) to confirm the recorded values. If the values are not satisfied, adjust the semifixed resistors and record the signals again to confirm the values. 	L: VR331 R: VR332	0±3 dB for 12.5 kHz with 1 kHz as the standard.	Refer to figure 2 below. 1) The recording and playback frequency response of a cassette deck are adjusted by adjusting the bias current. 2) Perform the adjustment with normal tape and confirm that the values are within the range for metal tape.

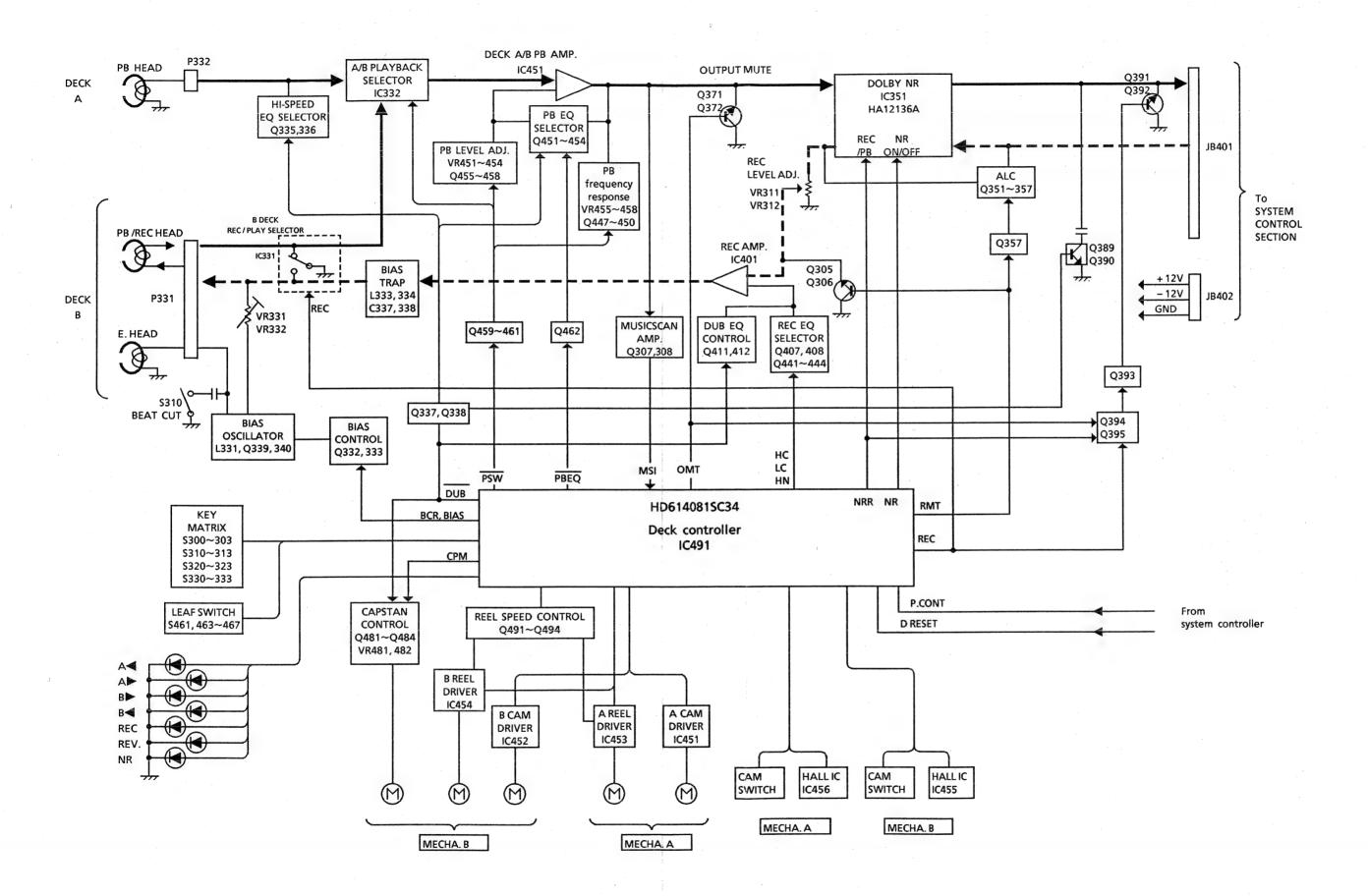


	ltem	Adjustment Method	Adjustment Location	Standard Value	Remarks
*	Record / Playback Sensitivity	 Input a 1 kHz (-8.2dBs: 300mV) signal to VIDEO/AUX terminals and record it on the left and right channels. Connect an electronic voltmeter to the DOLBY TP (figure 3) to confirm the recorded values. If the values are not satisfied, adjust the semi-fixed resistors and record the signals again to confirm the values. 	L: VR311 R: VR312	– 5.5dBs (411mV)	Adjust with normal tape and make sure that the left/right level difference is 1.0dB or less
7	Erase ratio check	 Record a music source using CrO₂ tape. Rewind and erase the recorded section. Comfirm nothing can be heard. 	-	-	-
8	Auto-stop check	Make sure to operate AUTO STOP at the end of tape running and not to operate on the way of the playing.	-	-	-
9	Music Scan	1. Make sure not to work the music scanning operation at the start of tape wind using TMT-6237. 2. Make sure to work the music scanning operation at the end of tape wind using TMT-6247.	e manual de la companya de la compan		•



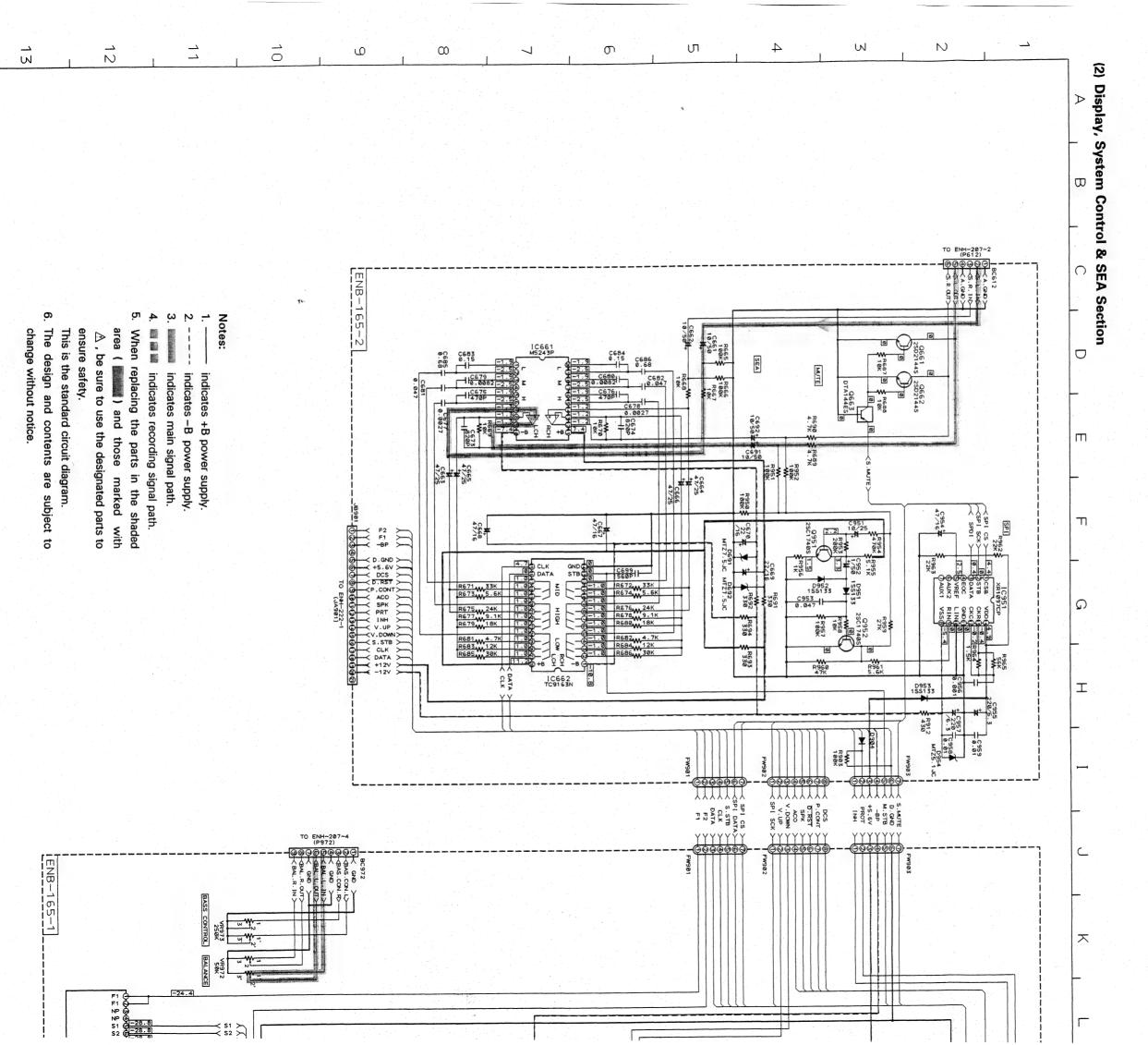
Block Diagram



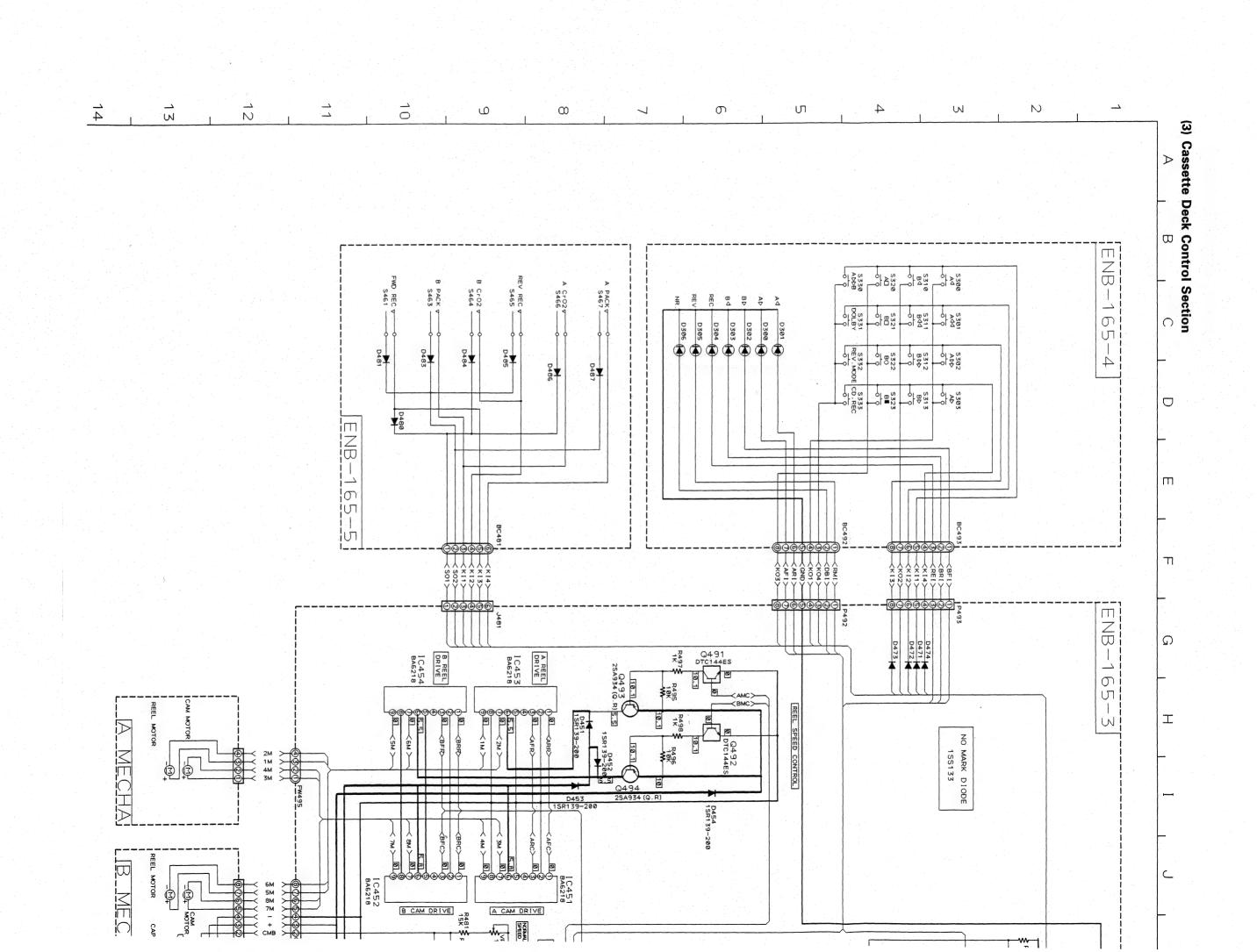


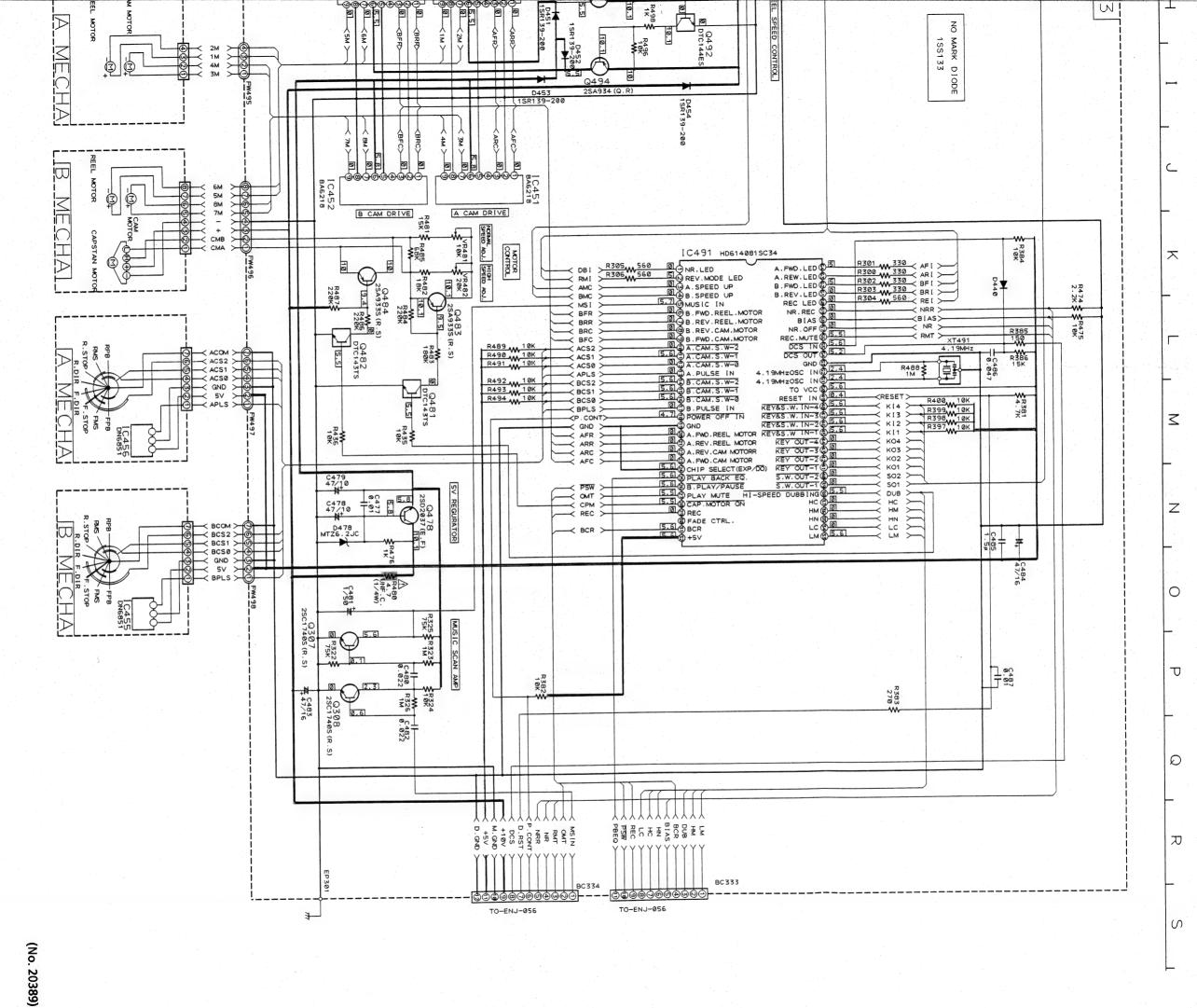
14

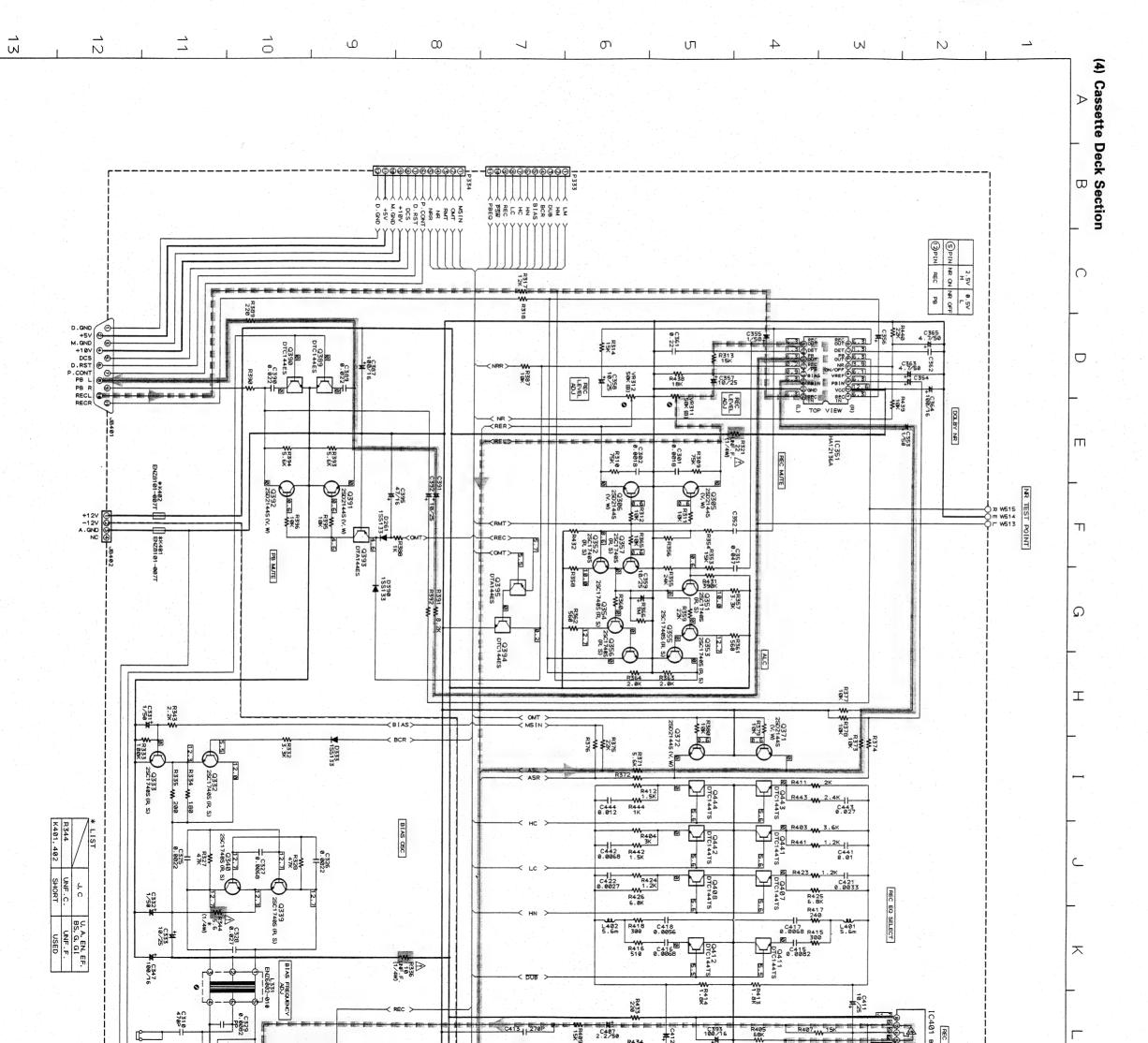
Ω -

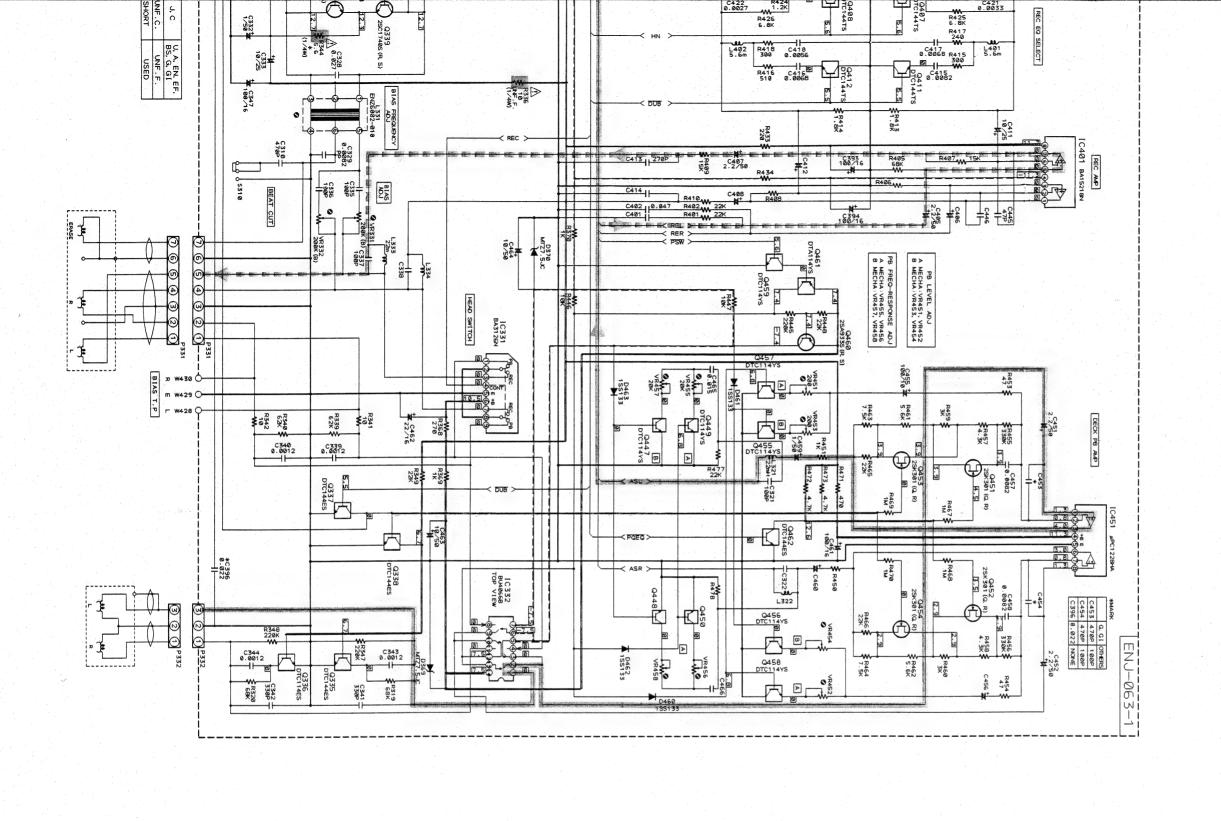


4









 \times

 \leq

Z

0

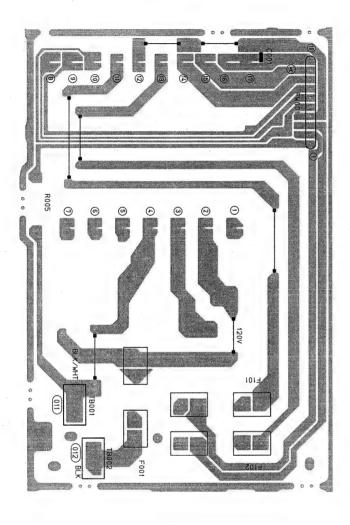
U

Q

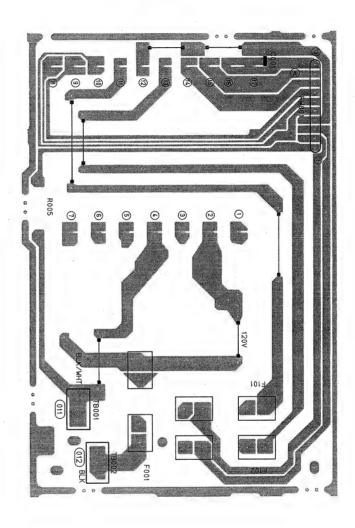
D

S

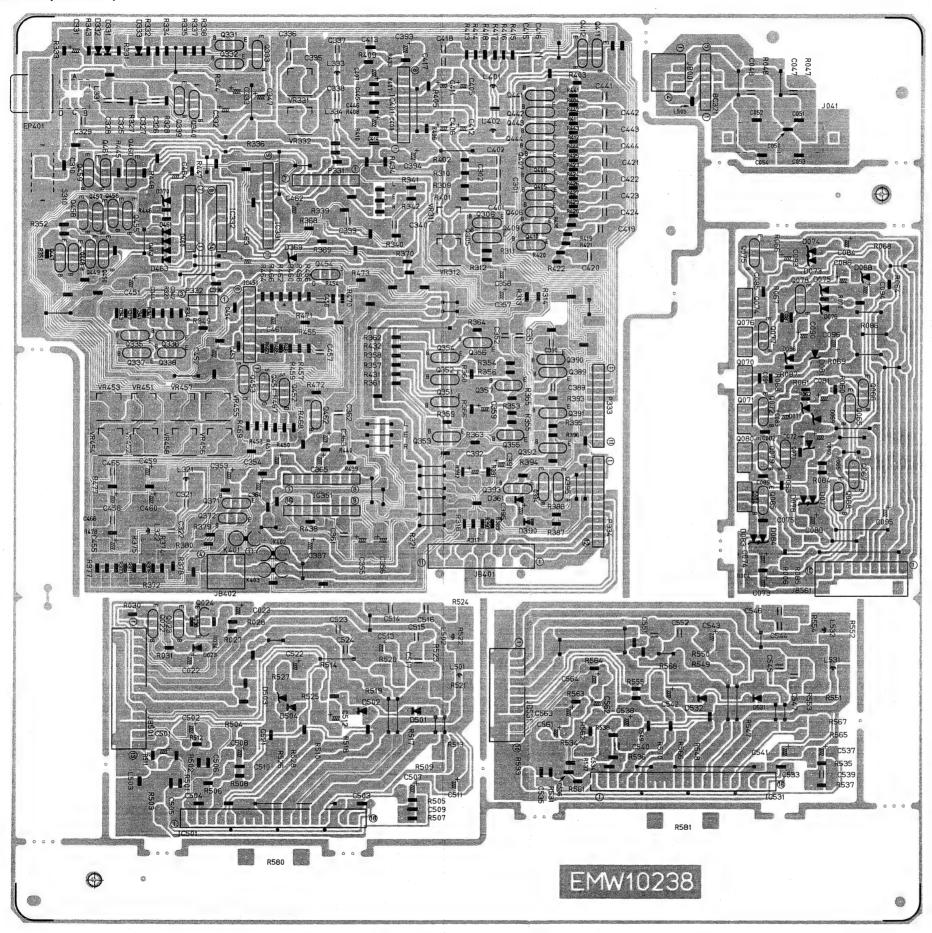
Europe, Australia



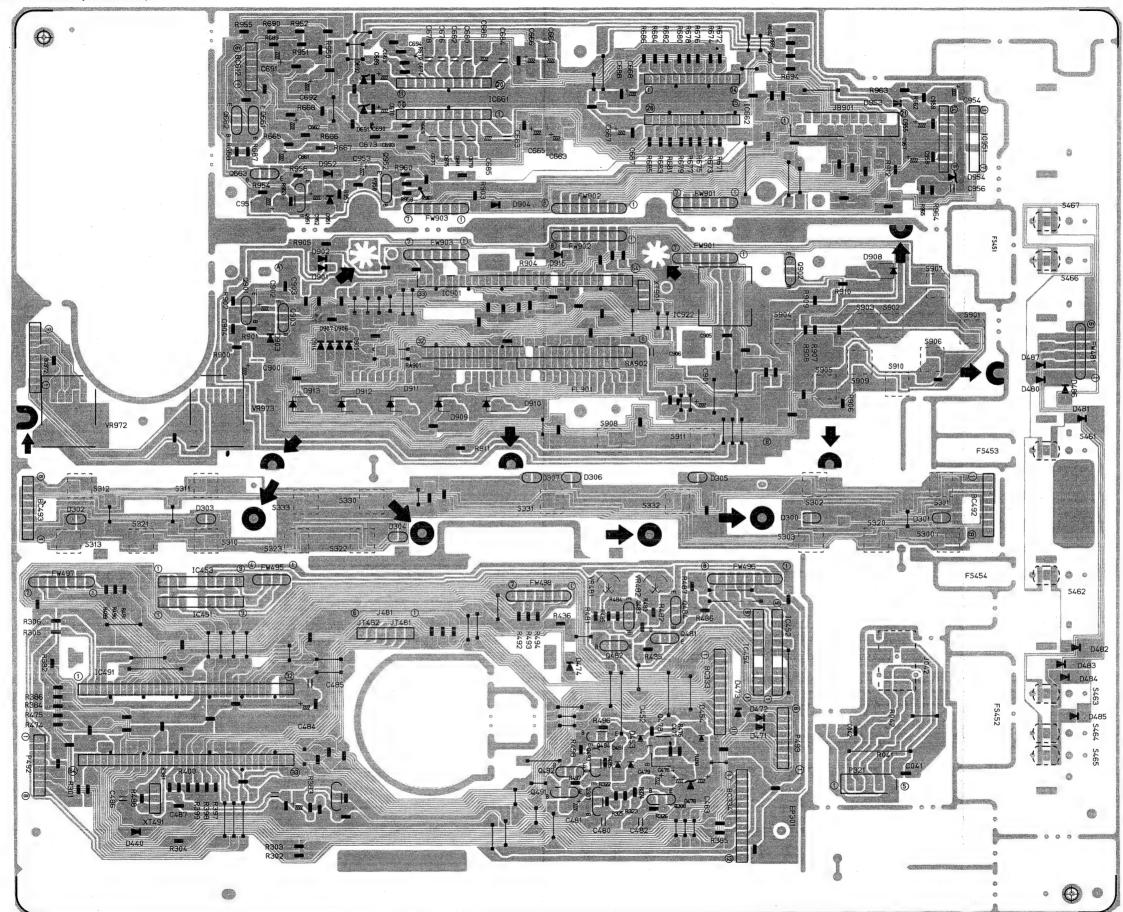
America, Canada



(3) Deck, Regulator & Amplifier PCB (ENJ-063)



(4) System & Deck Controller PCB (ENB-165)



(5) Power Primary Section

12

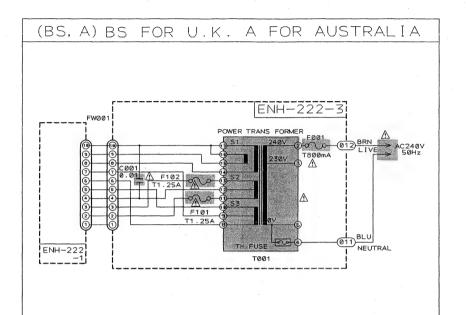
A , B , C , D , E , F , G , H , I , J , K , L , M , N , O , P , Q , R , S

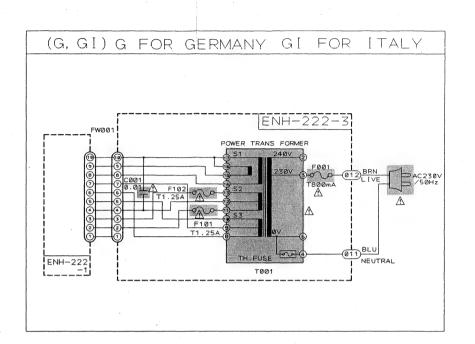
(EN, EF) EN FOR SCANDINAVIA
EF FOR CONTINENTAL EUROPE

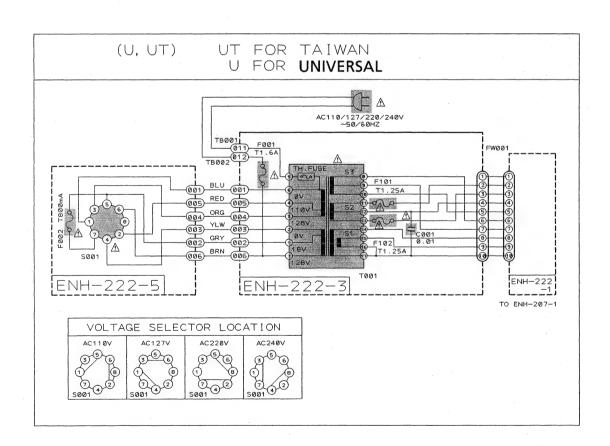
ENH-222-3

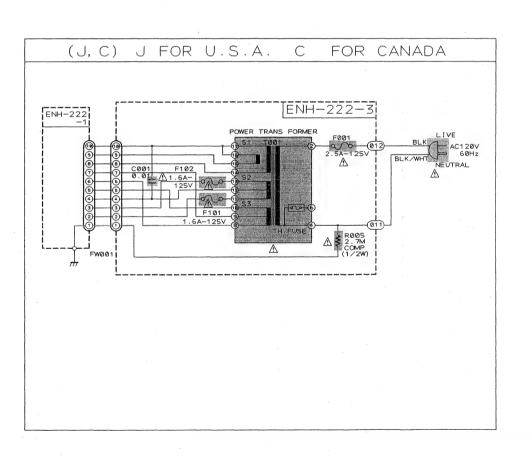
POWER TRANS FORMER

230V
F001
TH. F002
TH. F003
TH. F0



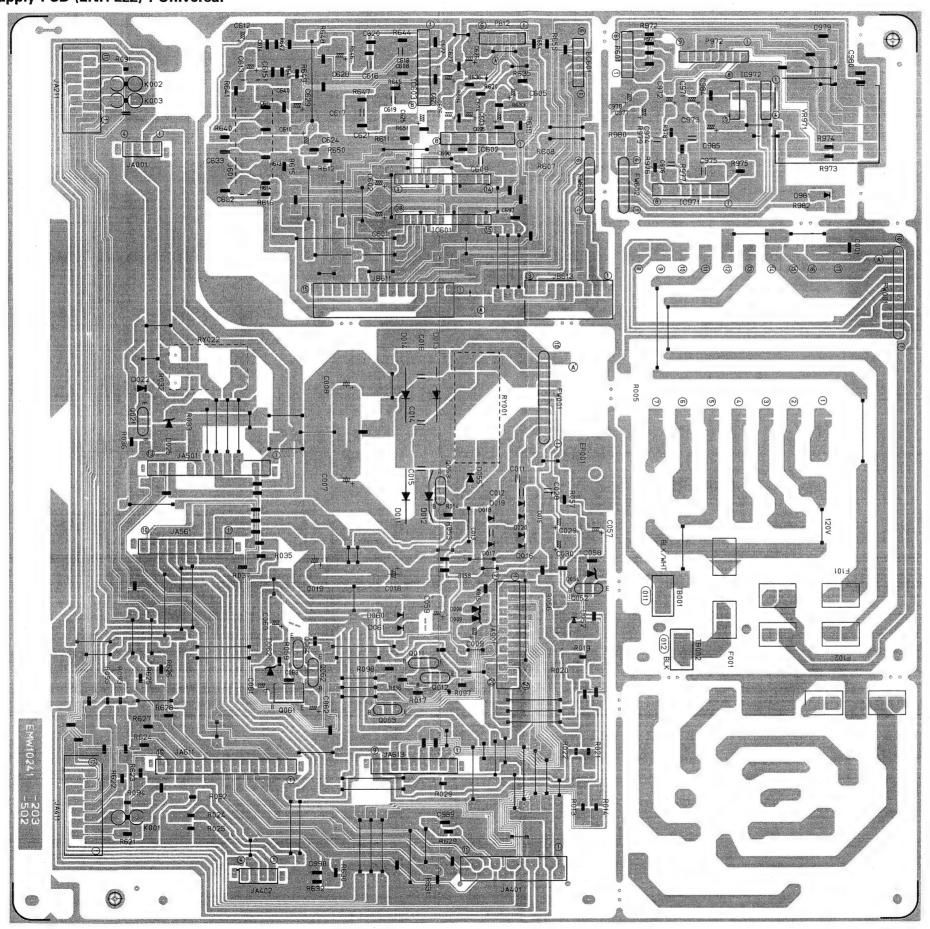






Printed Circuit Boards

(1) Input Selector & Power Supply PCB (ENH-222) : Universal

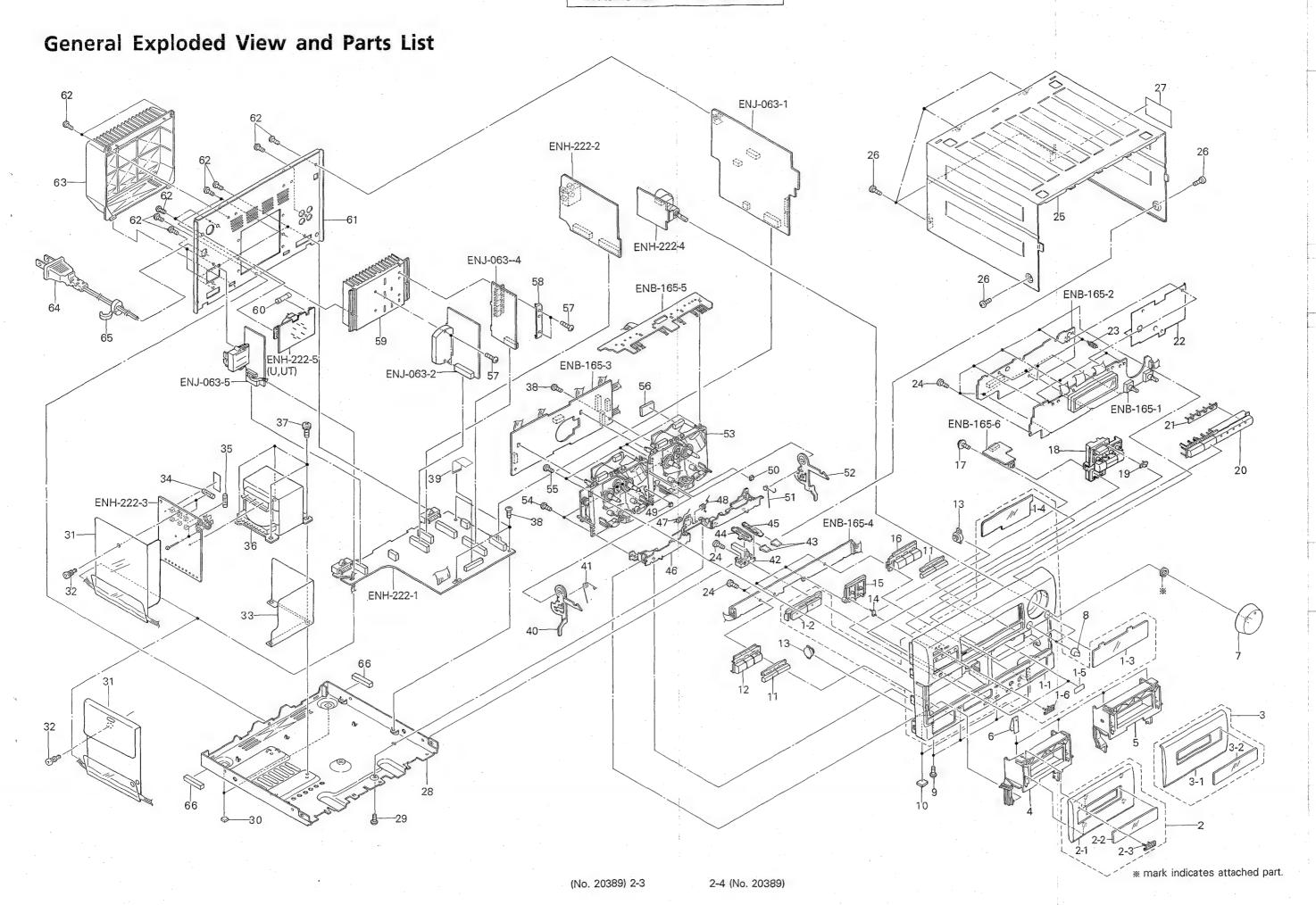


PARTS LIST

Note: All printed circuit boards and its assemblies are not available as service parts.

Contents

General Exploded View and Parts List	2 - 3
Cassette Mechanism Ass'y and Parts List	2 - 9
Printed Circuit Board Ass'y and Parts List	2-12
■ ENJ-063 Deck , Regulator & Amplifier PC Board Ass'y	2-12
■ ENB-165 System & Deck Controller PC Board Ass'y	2-16
■ ENH-222 Input Selector & Power Supply PC Board Ass'y	2-19
Accessories List	
Packing Materials and Part Numbers	2-26



Parts List

Λ	Item	Part Number	Part Name	Q'ty	Description	Areas
	1	EFP-DXMXC5BKE(S	FRONT PANEL ASSY	1		Excpet J
		EFP-DXMXC5BKJ(S	FRONT PANEL ASSY	1	·	J
	1-1	E102559-006SM	FRONT PANEL	1		
	1-2	E207374-003SS	PUSH BUTTON ASSY	1	DOLBY	
	1-3	E307965-008	WINDOW SCREEN	1		A
		E307965-008	WINDOW SCREEN	1		BS
		E307965-008	WINDOW SCREEN	1		c
		E307965-008	WINDOW SCREEN	1		EF
		E307965-008	WINDOW SCREEN	1	J	EN
		E307965-008	WINDOWSCREEN	1		G
	\vdash	E307965-008	WINDOW SCREEN	1		GI
		E307965-007	WINDOW SCREEN	1		1
		E307965-008	WINDOW SCREEN	1		U
		E307965-008	WINDOWSCREEN	1		UT
	1-4	E406980-002SM	FL SCREEN		,	1
	1-4	E69777-003	REFLECTION PLATE	2		
	1-5	E406971-221	JVC MARK	1		
		E207365-006SA	CASSETTE LID ASSY		(A)	
	2			1	1	
	2-1	E207365-006SM	CASSETTE LID	1	(A)	
_	2-2	E307919-001SM	WINDOW SCREEN	1 1	(A)	
	2-3	E406971-221	JVC MARK	1		
	3	E207367-006SA	CASSETTE LID ASSY	1	(B)	
-	3-1	E207367-006SM	CASSETTE LID	1	(B)	
	3-2	E307919-001SM	WINDOW SCREEN	1	(B)	
	4	E207381-001SM	CASSETTE HOLDER	1	(A)	
	5	E207382-001SM	CASSETTE HOLDER	1	(B)	
	6	E406713-001	CASSETE SPRING	4		
	7	E306549-002\$\$	VOLUME KNOB	1 1	,	
	8	E406691-224SM	BALANCE KNOB	2		
	9	SBST3006Z	SCREW	4		
	10	E406855-006SM	SPACER	2	FRONT FOOT	
	11	E207389-004SM	PUSH BUTTON	2	FF / REW	
	12	E207160-223S\$	PUSH BUTTON ASSY	1	A-PLAY	
	13	E304434-002	DAMPER ASSY	2		
	14	E406673-001	INDICATOR	1		
	15	E207364-004SS	PUSH BUTTON	1	REC	
	16	E207163-224SS	PUSH BUTTON ASSY	1	B-PLAY	
	17	E407098-001	SPECIAL SCREW	1		
	18	E207397-002SM	PUSH BUTTON	1	POEWR	
	19	E406938-221	POWER INDICATOR	. 1		
	20	E207395-003SM	PUSH BUTTON	1	SOURCE	
	21	E307967-001	SOURCE INDICATOR	1		
	22	E308459-003SM	SHIELD PLATE	1		
	23	E307112-001	FASTENER	3	1 -	
	24	SDSF2610Z	SCREW	13		
	25	E207399-005	METAL COVER	1		
	26	SDSG3006M	SCREW	6		
	27	E308522-021	RATING LABEL	1		UT
	28	E102561-001SM	CHASSIS BASE	1		1
	29	SBST3006M	SCREW	1		

Λ	ltem	Part Number	Part Name	Q'ty	Description	Areas
	30	E406855-007SM	SPACER	2	REAR FOOT	
	31	E308248-001SM	PROTECTOR COVER	1		j
		E308088-003SM	PROTECTOR COVER	1		c
		E308088-003SM	PROTECTOR COVER	1		A
		E308088-003SM	PROTECTOR COVER	1		EN
		E308088-003SM	PROTECTOR COVER	1		EF
		E308088-003SM	PROTECTOR COVER	1	,	BS
		E308088-003SM	PROTECTOR COVER	1	l	G
		E308088-003SM	PROTECTOR COVER	1		GI
		E308088-003SM	PROTECTOR COVER	1		U
		E308088-003SM	PROTECTOR COVER	1		UT
	32	E48729-008	PLASTIC RIVET	1		
	33	E407086-001	SHIELD COVER	1	SH001	
7	34	QMF51U1-1R6S	FUSE	2	F101, F102 (T1.6A/125V)	را
7		QMF51U1-1R6S	FUSE	2	F101,F102 (T1.6A/125V)	С
Ž		QMF51E2-1R2J1BS	FUSE	2	F101,F102 (T1.2A/250V)	BS
7		QMF51E2-1R25J1	FUSE	2	F101,F102 (T1.25A/250V)	A
7		QMF51E2-1R25J1	FUSE	2	F101, F102 (T1.25A/250V)	EF
7		QMF51E2-1R25J1	FUSE	2	F101, F102 (T1.25A/250V)	EN
2		QMF51E2-1R25J1	FUSE	2	F101, F102 (T1.25A/250V)	G
7		QMF51E2-1R25J1	FUSE	2	F101, F102 (T1.25A/250V)	GI
7		QMF51E2-1R25J1	FUSE	2	F101, F102 (T1.25A/250V)	U
7		OMF51E2-1R25J1	FUSE	2	F101, F102 (T1.25A/250V)	UT
1	35	QMF51U1-2R5S	FUSE	1	F001 (T2.5A/125V)	J
,		QMF51U1-2R5S	FUSE	1	F001 (T2.5A/125V)	С
7		QMF51E2-1R6J1	FUSE	1	F001 (T1.6A/250V)	U
,		QMF51E2-1R6J1	FUSE	1	F001 (T1.6A/250V)	UT
7		QMF51E2-R80J1BS	FUSE	1	F001 (T0.8A/250V)	BS
7		QMF51E2-R80J1	FUSE	1	F001 (T0.8A/250V)	A
,		QMF51E2-R80J1	FUSE	1	F001 (T0.8A/250V)	EF
7		QMF51E2-R80J1	FUSE	1	F001 (T0.8A/250V)	EN
,		QMF51E2-R80J1	FUSE	1	F001 (T0.8A/250V)	G
,		QMF51E2-R80J1	FUSE		F001 (T0.8A/250V)	GI
,	36	ETP1070-26JAJ	POWER TRANSFORMER	1	T001	J
,	30	ETP1070-26JAJ	POWER TRANSFORMER	'1	T001	c
7		ETP1070-26FAJ	POWER TRANSFORMER	1	T001	U
,		ETP1070-26FAJ	POWER TRANSFORMER	1	T001	UT
,		ETP1070-26EAJBS	POWER TRANSFORMER	1	T001	BS
7		ETP1070-26EAJ	POWER TRANSFORMER		T001	A
4		ETP1070-26EAJ	POWER TRANSFORMER		T001	EF
1		ETP1070-26EAJ	POWER TRANSFORMER	1	T001	EN
4		ETP1070-26EAJ	POWER TRANSFORMER		T001	G
,		ETP1070-26EAJ	POWER TRANSFORMER	1 1	T001	GI
۱ ۱	27	E65389-002		4	1001	ال
	37		SPECIAL SCREW		·	
4	38	SBSG3008CC	SCREW	4	rc001	
	39	EWR621K-34TTJ3	FLAT WIRE		FC901	
	40	E307599-222SM	EJECT LEVER		(A)	
	41	E406669-221SM	EJECT SPRING	1	(A)	1
	42	E307921-002	EJECT GUIDE	1		
-	43	E406667-223SM	EJECT BUTTON	2		1

Λ	Item	Part Number	Part Name	Q'ty	Description	Areas
	44	E406668-221SM	PUSH PLATE	1	(A)	
- 1	45	E406668-222SM	PUSH PLATE	1	(B)	
	46	E207360-001SM	HOLDER BRACKET	1		
	47	E406671-222SM	HOLDER SPRING	1	(A)	
	48	E406672-222SM	HOLDER SPRING	1	(B)	İ
\neg	49	E407213-001SM	SPACER	1	(A)	
	50	E407301-001SM	SPACER	1	(B)	
	51	E406670-221SM	EJECT SPRING	1	(B)	
	52	E307600-222SM	EJECT LEVER	1	(B)	
	53		CASSETTE MECHANISM ASSY	1	SEE PAGE 2-9	
	54	SBST3008C	SCREW	4		
	55	SBSF3010C	SCREW	4		
	56	EXO014008R60S13	SPACER	1		
	57	SBSG3014CC	SCREW	4		
	58	E406969-001SM	LEAF SPRING	1		
-	59	E307908-001SM	HEAT SINK	1		A
	33	E307908-0015M	HEAT SINK	1 1		EF
		E307908-001SM	HEAT SINK	1 1		EN
				1		BS
		E307908-001SM	HEAT SINK	1		G
_		E307908-001SM	HEAT SINK	1		GI
		E307908-001SM	HEAT SINK			U
		E307908-001SM	HEAT SINK	1		UT
		E307908-001SM	HEAT SINK	1		1
		E307908-002SM	HEAT SINK	1		1
Δ.		E307908-002SM	HEAT SINK	1	5000 (70 04 (250))	C
1	60	QMF51E2-R80J1	FUSE	1	F002 (T0.8A/250V)	U
Ţ		QMF51E2-R80J1	FUSE		F002 (T0.8A/250V)	UT
	61	E207418-021SM	REAR PANEL			1
		E207418-022SM	REAR PANEL	1		C
		E207418-023SM	REAR PANEL	1		U
		E207418-023SM	REAR PANEL	1		UT
		E207418-024SM	REAR PANEL	1		A
		E207418-024SM	REAR PANEL	1		BS
		E207418-025SM	REAR PANEL	1		EF
		E207418-025SM	REAR PANEL	1	<u> </u>	EN
,		E207418-025SM	REAR PANEL	1		G
		E207418-025SM	REAR PANEL	1		GI
	62	E73273-003	SPECIAL SCREW	11		
		E73273-003	SPECIAL SCREW	2		U
		E73273-003	SPECIAL SCREW	2		UT
	63	E207356-001SM	REAR COVER	1		
Λ	64	QMP1D00-200H	POWER CORD	1		J
Λ		QMP1D00-200H	POWER CORD	1		C
<u> </u>		QMP25F0-244	POWER CORD	1		A
<u> </u>		QMP5530-0085BS	POWER CORD	1		BS
$\overline{\mathbb{A}}$		QMP3900-200	POWER CORD	1		EF
$\overline{\Lambda}$		QMP3900-200	POWER CORD	1		EN
<u> </u>		QMP3900-200	POWER CORD	1		G
$\overline{\mathbb{A}}$		QMP3900-200	POWER CORD	1		GI
/ 1 /		1 411 2200-200	I. STILL COMP	1 '	1	1 -

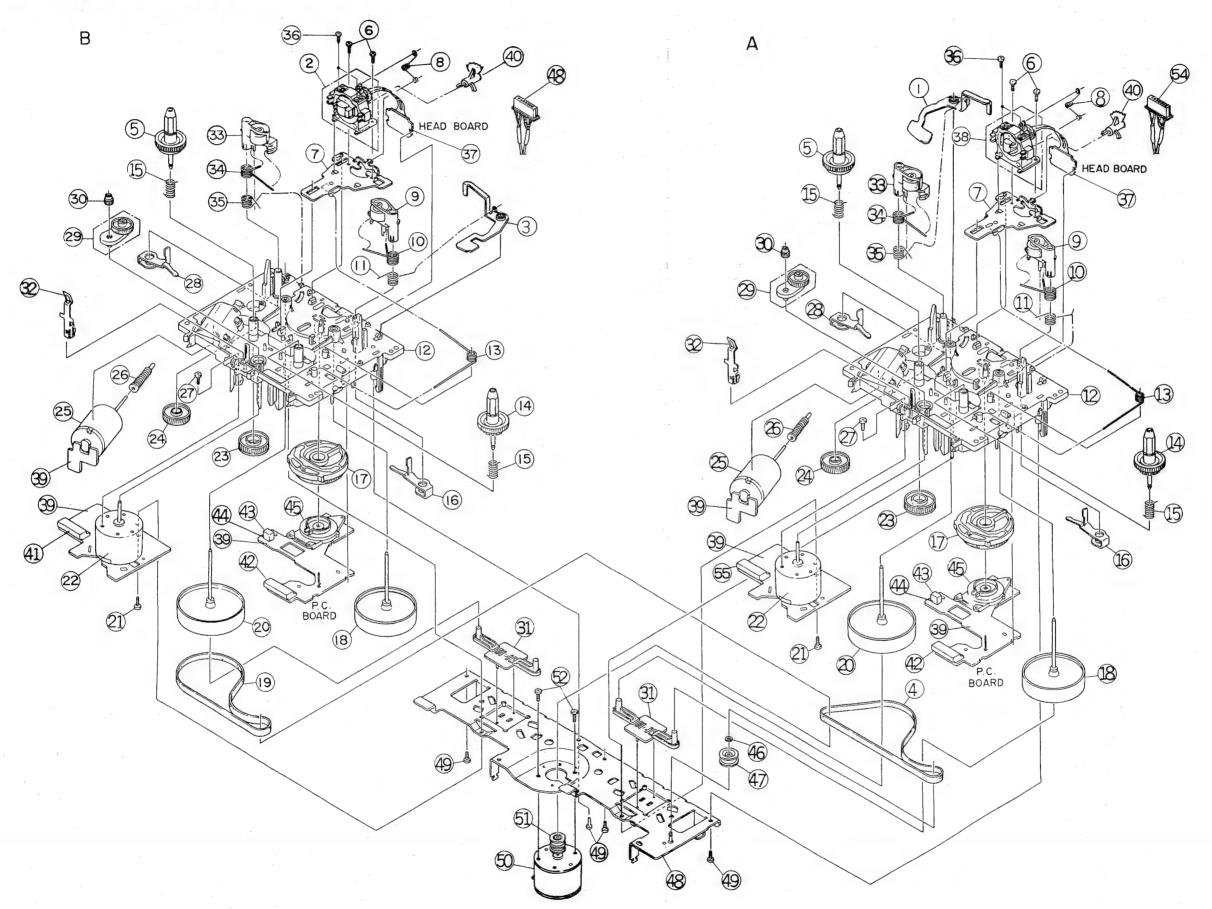
⚠	Item	Part Number	Part Name	Q'ty	Description	Areas
Ŵ		QMP7520-200	POWER CORD	1		UT
Λ	65	QHS3876-162	CORD STOPPER	1 1		١
1		QHS3876-162	CORD STOPPER	1 1		c
<u>Ņ</u>		QHS3876-162	CORD STOPPER	1		Α
Ĺ		QHS3876-162	CORD STOPPER	1		EF
î\		QHS3876-162	CORD STOPPER	1		EN
Ņ		QHS3876-162	CORD STOPPER	4 4		G
Ŷ		QHS3876-162	CORD STOPPER	1.		GI
Ţ		QH\$3876-162	CORD STOPPER	1 1		U
Ţ		QH\$3876-162	CORD STOPPER	1		UT
1		QHS3876-162BS	CORD STOPPER	1		BS
	66	E407604-001SM	SPACER	2		
	-	E75803-001	CAUTION LABEL	1 1		J
		E75804-001	CAUTION LABEL	1 1		c
	-	E45858-002	LABEL	1		С
	-	QZL1031-101	LABEL	1		EF
	-	E70027-001	LABEL	1		EN

⚠ SAFETY PARTS

The	Marks	for	Designated	Areas
-----	-------	-----	------------	-------

	the U.S.A.	C	Canada	A Australia	BS	the U.K.
Ν	Scandinavia	EF	Continental Europe	G Germany	GI	itary
!T	Taiwan	13	Universal type	No mark indicates all area	ıs.	

Cassette Mechanism Ass'y and Parts List



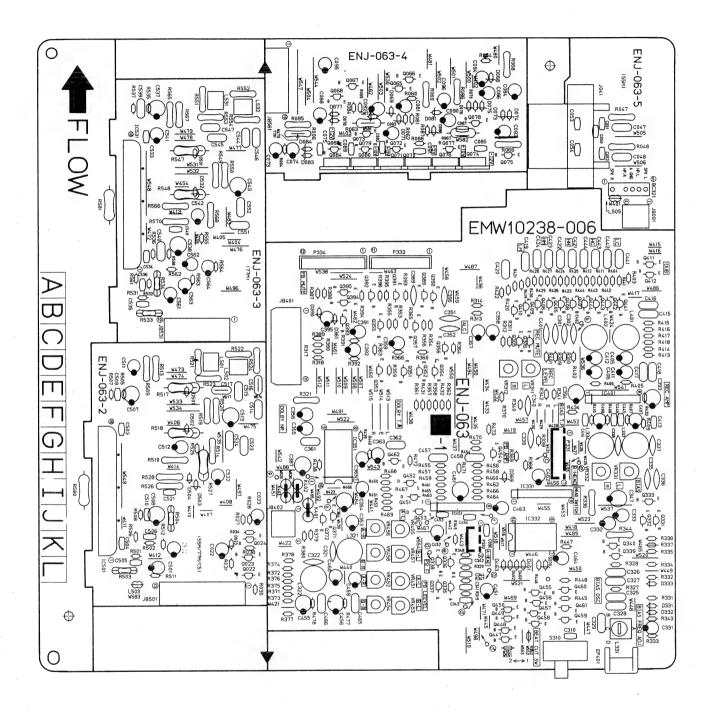
■ Parts List (Cassette Mechanism)

Item	Part Number	Part Name	Q'ty	Description	Areas
1	VKL6954-007	EJECT SAFETY LEVER	1	A MECHANISM	
2	VKS3551-00C	HEAD BLOCK ASSY	1	B MECHANISM	
3	VKL6943-005	EJECT SAFETY LEVER	1	B MECHANISM	
4	VKB3001-050	CAPSTAN BELT	1	A MECHANISM	
5	VK\$5321-00D	REEL ASSY	2	RIGHT	
6	SDST2004Z	SCREW	4	FOR HEAD MOUNT ASSY	
7	VKL6942-00E	HEAD BASE ASSY	2		
8	VKW4994-001	HEAD SPRING	2		
9	VKP4221-00C	PINCH ROLLER ASSY	2	LEFT	
10	VKW4982-001	TORSION SPRING	2	LEFT	
11	VKW4933-005	TORSION SPRING	2	LEFT	
12	VK\$1112-30E	CHASSIS BASE ASSY	2		
13	VKW4930-002	RETURN SPRING	2		
14	VK\$3480-005	REEL ASSY	2	LEFT	
15	VKW4928-003	B.T SPRING	4	FOR REEL ASSY	
16	VKL6940-002	PINCH ROLLER LEVER	1 2	LEFT	
			2	CETT	
17	VKS2209-006	CONTROLLER CAM	2	LEET	
18	VKF3186-00C VKB3001-048	FLYWHEEL ASSY	1	LEFT	
19		CAPSTAN BELT	1	B MECHANISM	
20	VKF3184-00C	FLYWHEEL ASSY	2	RIGHT	
21	SDSF2608Z	SCREW	2	PC BOARD - FM BRACKET	
22	MMN-6F4RA38	DC MOTOR	2	REEL	
23	VK\$5331-002	GEAR (6)	2		
24	VKS5330-004	GEAR (5)	2		
25	MXN-13FB12F	DC MOTOR	2	CAM	
26	VKS5329-002	GEAR (4)	2		
27	SDSP2605Z	SCREW	2	CHASSIS BASE - D.C. MOTOR	
28	VKL6939-002	PINCH ROLLER LEVER	2	RIGHT	
29	VKS5325-00F	FR ARM ASSY	2		
30	VK\$5328-002	REEL MOTOR GEAR	2		
31	VK\$5327-003	THRUST PALTE	2		
32	VKY4628-002	PACK SPRING	2		
33	VKP4219-00C	PINCH ROLLER ASSY	2	RIGHT	
34	VKW4981-001	TORSION SPRING	2	RIGHT	
35	VKW4932-005	TORSION SPRING	2	RIGHT	
36	VKZ4629-003	SCREW	4		
37	VMW4816-001	PRINTED BOARD	2		
38	VK\$3550-00C	HEAD MOUNT ASSY	1	A MECHANISM	
39	VMW2345-002	PRINTED BOARD	2		
40	VK\$3485-002	HEAD BLOCK GEAR	2		
41	VMC0249-R08	CONNECTOR	1	B MECHANISM	
42	VMC0249-R07	CONNECTOR	2		
43	DN6851A	HALLIC	2		
44	VK\$3487-002	IC HALL	2		
1		l .	1	1	
45	VKS3587-00A	CAM SWITCH ASSY	2	·	
46	WDL163525-4	WASHER	1		
47	VKR4631-002	IDLER PULLEY	1	•	
48	VKM3419-00E	FM BRACKET	1		
49	SDSF2605Z	SCREW	4	CHASSIS BASE - BRACKET	
50	MMI-6H2LWSK	MOTOR	1	CAPSTAN	······
51	VKR4632-003	MOTOR PULLEY	1		
52	SPSP2603Z	SCREW	2		
53	VDM107P-040	HEAD WIRE	1	B MECHANISM	
54	VDM103P-040	HEAD WIRE	1	A MECHANISM	
55	VMC0249-R04	CONNECTOR	1	A MECHANISM	

Printed Circuit Board Ass'y and Parts List

■ENJ-063 Deck , Regulator & Amplifier PC Board Ass'y

Note: ENJ-063 varies according to the areas employed. See note (1) when placing an order.



Note (1)

PC Board Ass'y	Designated Areas
ENJ-063 E	the U.S.A.
ENJ-063 F	Canada
ENJ-063 G	Australia , the U.K. Scandinavia Continental Europe Taiwan , Universal Type
ENJ-063 [H]	Germany , Italy

Transistors

Δ	ITEM	PART NUMBER	DES	CRIPTION	AREA
l	0022	2SC1740S(R,S)	SILICON	ROHM	
	Q023	2SC1740S(R,S)	SILICON	ROHM	
	Q024 Q065	2SA733A(P,Q) DTC144ES	SILICON	NEC ROHM	
	0066	DTA114YS	SILICON	ROHM	
	Q067	DTA144ES	SILICON	ROHM	
	Q068 Q070	DTC114YS 2SD2061(E,F)	SILICON SILICON	ROHM ROHM	
	Q071	2SD2061(E/F)	SILICON	ROHM	
	Q072	2SC1740S(R,S)	SILICON	ROHM	
	Q073	2SC1740S(R,S)	SILICON	ROHM	E
	Q073 Q076	2SC1740S(R,S) 2SD2061(E,F)	SILICON	ROHM ROHM	F
	Q077	2SC1740S(R,S)	SILICON	ROHM	
	Q078	2SC1740S(R,S)	SILICON	ROHM	E F
	Q078	2SC1740S(R,S)	SILICON	ROHM	F
	Q079 Q080	2SA564A(Q,R) 2SB1187(E,F)	SILICON	MATSUSHITA ROHM	
	Q084	2SB1187(E/F)	SILICON	ROHM	
	Q085	2SA564A(Q,R)	SILICON	MATSUSHITA	
	Q305	2SD2144S(VW)	SILICON	ROHM	
	Q306	2SD2144S(VW)	SILICON	ROHM	
	Q332 Q333	2SC1740S(R,S) 2SC1740S(R,S)	SILICON	ROHM ROHM	
	Q335	DTC144ES	SILICON	ROHM	
	Q336	DTC144ES	SILICON	ROHM	
	Q337	DTC144ES	SILICON	ROHM	
	Q338 Q339	DTC144ES 2SC174OS(R,S)	SILICON	ROHM	
	Q340	2SC1740S(R,S)	SILICON	ROHM	
	Q351	2SC1740S(R,S)	SILICON	ROHM	
	Q352	2SC1740S(R,S)	SILICON	ROHM	
	Q353	2SC174OS(R/S) 2SC174OS(R/S)	SILICON	ROHM ROHM	
	Q354 Q355	2SC1740S(R,S)	SILICON	ROHM	
	Q356	2SC1740S(R,S)	SILICON	ROHM	
	Q357	2SC174OS(R,S)	SILICON	ROHM	
	Q371	2SD2144S(VW)	SILICON	ROHM	
	Q372 Q389	2SD2144S(VW) DTC144ES	SILICON	ROHM ROHM	
	Q390	DTC144ES	SILICON	ROHM	•••••
	Q391	2SD2144S(VW)	SILICON	ROHM	
	Q392	2SD2144S(VW)	SILICON	ROHM	
	Q393	DTA144ES	SILICON	ROHM	
	Q394 Q395	DTC144ES DTA144ES	SILICON	ROHM ROHM	
	Q407	DTC144TS	SILICON	ROHM	
	Q408	DTC144TS	SILICON	ROHM	
	Q411	DTC144TS	SILICON	ROHM ROHM	
	Q412 Q441	DTC144TS DTC144TS	SILICON	ROHM	
	Q442	DTC144TS	SILICON	ROHM	
	Q443	DTC144TS	SILICON	ROHM	
	Q444	DTC144TS	SILICON	ROHM	
	Q447	DTC114YS	SILICON	ROHM	
	Q448 Q449	DTC114YS DTC114YS	SILICON	ROHM ROHM	
	Q450	DTC114YS	SILICON	ROHM	
	Q451	2SK301(Q,R)	F.E.T	MATSUSHITA	
	Q452 Q453	2SK301(Q,R)	F.E.T	MATSUSHITA	
	Q454	2SK301(Q,R) 2SK301(Q,R)	F.E.T F.E.T	MATSUSHITA MATSUSHITA	
	Q455	DTC114YS	SILICON	ROHM	
	Q456	DTC114YS	SILICON	ROHM	
	Q457	DTC114YS	SILICON	ROHM	• • • • • • • • • • • • • • • • • • • •
	Q458 Q459	DTC114YS DTC114YS	SILICON SILICON	ROHM ROHM	
	0460	2SA933S(R,S)	SILICON	ROHM	
	Q461	DTA114YS	SILICON	ROHM	
	Q462	DTC144ES	SILICON	ROHM	
				A ISIA FIEITIYI IPIAIR	ITIS

I.C.s

∆ ITEM	PART NUMBER	DESCR	IPTION	AREA
IC331 IC332 IC351 IC401 IC451 IC501	BU4066B HA12136AT BA15218N UPC1228HA	I.C. F I.C. H I.C. F I.C. N	ROHM ROHM HITACHI ROHM NEC SANYO	

A I : ISIA FIEITIYI IPIA RITIS

Diodes

Δ	ITEM	PART	NUM	BER	D I	E S	С	R	ī	P	Т	I	0	N	AREA
	D023	155133	1		ILI	CON		F	ЮН	M					
	D071	RD13JS	83	12	ENE	R		N	IEC						
	D072	MTZ13J	С	12	ENE	R		F	OH	M					
	D075	MTZ11J	C	jz	ENE	R		F	ОН	М					
	D076	MTZ12J	С		ENE	R		F	OH	М					
	D077	MTZ11J	C	1	ENE	R		R	ОН	M					
	D078	MTZ12J	С	12	ENE	R		R	OH	М					
	D081	MTZ6.8	JC	12	ENE	R		R	OH	M					
	D083	MTZ13J	C	1	ENE	R		R	OH	M					
	D084	RD13JS	В3	12	ENE	R		N	EC						
	D086	MTZ6.2	JC	7	ENE	R		R	ОН	М					
	D333	188133		S	ILI	CON		R	ОН	M					
	D361	188133			ILI	CON		R	OH	M					
	D369	MTZ7.5	JC	7	ENE	R		R	ОН	М					
	D370	MTZ7.5	JC		ENE			R	ОН	М					
	D390	188133		5	ILI	CON		R	OH	M					
	D460	188133	i	S	ILI	CON		R	OH	М				1	
	D461	188133		ļs.	ILI	CON		R	OH	M					
	D462	188133		5	ILI	CON		R	OH	М					
	D463	188133				CON		R	OH	М					
	D501	155133		5	ILI	CON		R	ОН	M					
	D502	188133		S	ILI	CON		R	OH	М					
	D503	MTZ12J	С	2	ENE	R		R	ОН	M				- 1	
	D504	188133		S	ILI	CON		R	ОН	М				- 1	F
	D504	188133		s	ILI	CON		R	OH	М					G
	D504	188133		S	ILI	CON		R	OH	M					H

⚠ (; |S|A|F|E|T|Y| |P|A|R|T|S

Capacitors

Ca	pacito	S											14
Δ	ITEM	PART	NUMBER	D E	S	C R	1	P	Т	I	0	N	AREA
	C022	QETB10	M-226	22MF		161	,	EL	EC	TR	0		
	C023	QETB1	M-476	47MF		101	r	EL	ΕC	TR	0		ì
	C047	QFLB1F		0.01	16	501		MY	LA	R			н
1	C048	QFLB1H	J-103	0.01		50V	,	MY	'LA	R			н
	C051	QCBB1H	K-221	220PF	:	50V	,	CE	RA	MI	С		Н
	C052		K-221	220PF		501		CE	RA	MI	C		Н
1	C053	QCXB10	M-222	2200F	F	161	,	CE	RA	MI	С		E
	C053	QCXB10	M-222	2200F	F	161	r	CE	RA	MI	C		F.
	C053	QCXB10	M-222	2200F	F	161	,	CE	RA	MI	С		G
	C053	QCHB18	Z-223	0.022	MF	25 V	,	CE	RA	MI	С		н
	C054	QCHB1E	Z-223	0.022	MF	25V	,	CE	RA	ΜI	C		Н
	C073	QETB1E	M-226	22MF		25 V	,	EL	E C	TR	0		
1	C074	QETB18	M-476	47MF		25 V	,	EL	.EC	TR	0		
	C075	QCVB10	M-103	0.01	1F	161	,	CE	RA	MI	С		
	C081	QETB1E	M-226	22MF		25 V	,	EL	E C	TR	0		
	082	QCVB10	M-103	0.01	1F	161		CE	RA	ΜI	C		
	C083	QETB1E	M-226	22MF		25 V	'	EL	.EC	TR	0		
	C086	QETB1E	M-226	22MF		25 V	'	EL	E C	TR	0		
1	C087	QCVB10	M-103	0.01	۱F	16V		CE	RA	ΜI	С		
	C088	QETB1E	M-226	22MF		25 V	'	EL	E C	TR	0		
	C089	QCVB10	M-103	0.01	F	16V		CE	RA	ΜI	C		
	C090	QETB1E	M-226	22MF		25 V	•	ΕL	E C	TR	0		i
	C091	QCVB10	M-103	0.01	l F	16 V	•	CE	RA	ΜI	С		
	C092	QETB1E	M-226	22MF		25 V		EL	E C	TR	0		
	C094	QETB1E	M-226	22MF		25 V		EL	EC	TR	0		
	C095	QETB1E	M-226	22MF		25 V		EL	EC	TR	0		
	C096	EEZ500	9-106	10MF				EL	E C	TR	0		
	C301	QCY21H	IK-182	1800F	F	50 V		CE	RA	ΜI	С		
	C302	QCY21F	K-182	1800F	F	50 V		CE	RA	MI	С		
1	C310	QCBB1H	IK-471	470PF		50 V		CE	RA	ΜI	С		
	C321	QCY21H	K-101	100PF		50 V		CE	RA	ΜI	C		
	C322	QCY21F	IK-101	100PF	:	50 V		CE	RA	MI	С		
1	C325	QFLB1H	IJ-222	2200F	F	50 V		MY	LA	R			
	C326	QFLB1H	IJ-222	2200F	F	50 V	,	MY	LA	R			
1	C327	QFLB1F	IJ-682	6800F	F	50 V	,	MY	LA	R			
	C328	QFLB1H	IJ-273	0.027	MF	50 V		MY	LA	R			
1	C329	QFP81H	IG-822	8200F	F	50 V	,	PC	LY				
1	C331	QETB1H	M-105	1MF		50 V	•	EL	E C	TR	0		
1	C332	QETB1H		1MF		50 V	,	EL	.EC	TR	0		
1	C333	QETB1E		10MF		25 V	•	EL	EC	TR	0		
	C335	QCS21F		100PF		50 V			RA				
1	C336	QCS21H	IJ-101	100PF		50 V	•	CE	RA	MI	С		
	C337	QCS21F		100PF		50 V		CE	RA	MI	С		
1	C338	QCS21H	J-101	100PF		50 V		CE	RA	ΜI	С		
	C339	QCY21F	K-122	1200F	F	50 V		CE	RA	MI	С		
		·				A	1:15	IA:F	TE.	TIY	1 11	PIAIF	RiTiSi

(No. 20389) 2-13

Capacitors

4	ITEM	PART	NUMB	ER	DES	C R I	PTION	AREA
1	C340		HK-122		1200PF	50 V	CERAMIC	
	C341		HK-331 HK-331		330PF 330PF	50V 50V	CERAMIC	
	C342		CM-122		1200PF	16V	CERAMIC	
	C344	QCXB1	CM-122		1200PF	16V	CERAMIC	
	C347		CM-107 HP-473		100MF 0.047MF	16V 50V	CERAMIC	
	C351		HP-473		0.047MF	50V	CERAMIC	
	C353		HM-105		1MF	50V	ELECTRO	
	C354		HM-105		1MF	50 V	ELECTRO	
	C355		HM-105		1MF	50V	ELECTRO ELECTRO	
	C356		HM-105 EM-106		1MF 10MF	50V 25V	ELECTRO	
	C358		EM-106		10MF	25V	ELECTRO	
	C359		EM-106		10MF	25V	ELECTRO	
	C361 C362	QFV81	HJ-224 HJ-224		0.22MF 0.22MF	50 V 50 V	T.FILM T.FILM	
	C363		HM-475		4.7MF	50V	ELECTRO	
	C364		CM-107		100MF	16V	ELECTRO	
	C365		HM-475		4.7MF	50V 16V	ELECTRO ELECTRO	
	C387 C389		CM-107 HP-223		0.022MF	50V	CERAMIC	
	C390		HP-223		0.022MF	50V	CERAMIC	
	C391		EM-106		10MF	25V	ELECTRO	
	C392		EM-106 CM-107		10MF 100MF	25V 16V	ELECTRO ELECTRO	
	C394		CM-107		100MF	16V	ELECTRO	
	C395	QETB1	CM-476		47MF	16V	ELECTRO	
	C396		EZ-223		0.022MF 0.047MF	25 V 50 V	CERAMIC	н
	C401		HP-473		0.047MF	50V	CERAMIC	
	C405	QETB1	HM-225		2.2MF	50V	ELECTRO	
	C406	QETB1	HM-225		2.2MF	50V	ELECTRO	
	C407 C408		HM-225		2.2MF 2.2MF	50V 50V	ELECTRO ELECTRO	
••••	C411		EM-106	••••	10MF	25V	ELECTRO	
	C412	QETB1	EM-106		10MF	25V	ELECTRO	
	C413		HK-271 HK-271		270PF	50V 50V	CERAMIC CERAMIC	
	C414 C415		HJ-822		8200PF	50V	MYLAR	
	C416	QFLB1	HJ-822		8200PF	50 V	MYLAR	
	C417		HJ-682		6800PF	50 V 50 V	MYLAR MYLAR	
	C418 C421		HJ-682 HJ-332		6800PF 3300PF	50 V	MYLAR	
	C422		HJ-332		3300PF	50V	MYLAR	
	C441		HJ-103		0.01MF	50 V	MYLAR	
	C442		HJ-103 HJ-273		0.01MF 0.027MF	50V 50V	MYLAR MYLAR	
	C443		HJ-273		0.027MF	50V	MYLAR	
	C445	QCSB1	HJ-470		47PF	50V	CERAMIC	
	C446		HJ-470		47PF	50V 50V	CERAMIC ELECTRO	
	C451		LHM-225 LHM-225		2.2MF 2.2MF	50V	ELECTRO	
	C453		HK-101		100PF	50 V	CERAMIC	E
	C453		LHK-101		100PF	50V	CERAMIC	F G
	C453		LHK-101 LHK-471		100PF 470PF	50V 50V	CERAMIC	Н
	C453		1HK-101		100PF	50V	CERAMIC	E
	C454		IHK-101		100PF	50 V	CERAMIC	F
	C454		1HK-101		100PF 470PF	50V	CERAMIC	G H
	C454	1	1HK-471 1AM-107		100MF	10V	ELECTRO	
	C456	QETB:	1AM-107		100MF	10V	ELECTRO	
	C457	QFLB:	1HJ-822		8200PF	50V	MYLAR	
	C458		1HJ-822		8200PF	507	MYLAR ELECTRO	
	C459 C460		1HM-105 1HM-105		1 M F	50V 50V	ELECTRO	
	C461		1CM-103		100MF	16V	ELECTRO	
	C462	QETB:	1CM-226		22MF	16V	ELECTRO	
	C463		1HM-106		10MF 10MF	50V 50V	ELECTRO ELECTRO	
	C464		1HM-106 1HJ-153		0.015MF		MYLAR	
	C466	QFLB	1HJ-153		0.015MF		MYLAR	
	C501		009-106		10MF		ELECTRO ELECTRO	
	C502		009-106 1HK-101		10MF 100PF	50V	CERAMIC	E
	C503	QCBB	1HK-101		100PF	50V	CERAMIC	F
	C503	QCBB	1HK-101		100PF	50V	CERAMIC	G.
	C503		1HK-221		220PF 100PF	50V 50V	CERAMIC	E
	C504		1HK-101 1HK-101		100PF	50V	CERAMIC	F
	C504	QCBB	1HK-101		100PF	50 V	CERAMIC	G
	C504	QCBB	1HK-221	L	220PF	50V	CERAMIC	H E
	C 5 0 5	1	1HK-101		100PF 100PF	50V 50V	CERAMIC CERAMIC	F
	C505	QCRR	1HK-101		100PF	50V	CERAMIC	G
	C505	QCSB	1HJ-270)	27PF	50 V	CERAMIC	H
	C506	QCBB	1HK-101		100PF	50V 50V	CERAMIC	E F
	C506		1HK-101		100PF 100PF	50V	CERAMIC	G
	C506	QCSB	1HJ-27)	27PF	50 V	CERAMIC	Н
	C507	QETB	1EM-22	7	220MF	25V	ELECTRO	
l	C508		1EM-22		220MF 5.6PF	25 V 50 V	ELECTRO CERAMIC	E
	C509	I WCI3	OCH-5R	5	5.6PF	50V	CERAMIC	F

Capacitors

₫.	ITEM	PART	NUMBER	DI	E S	C R	I	Р	Т	I	0	N	AREA
	C509	QCT300	H-5R6	5.6P	F	50V		CE	ERA	ΜI	С		G
	C509	QCSB1F	J-100	10PF		50 V	,	CE	ERA	ΜI	С		н
	C510	QCT300	H-5R6	5.6P	F	50V	•	CE	RA	ΜI	С		E
	C510	QCT300	H-5R6	5.6F	F	50V		CE	RA	ΜI	С		F
	C510	QCT300	H-5R6	5.6P	F	50V			RA				G
	C510	QCSB1F	J-100	10PF		50V			ERA		-		Н
	C511	QETB1	M-226	22MF		50 V			_EC				
	C512	QETB1H	lM-226	22MF		50 V			.EC				
1	C513	QETB1	M-227	220M		50 V			_EC				E
	C513	QETB1		220		501			.EC				F
	C513	QETB1H	IM-107	100		50V			.EC		_		G
	C513	QETB1	HM-107	100		50V			_EC		0		н
	C514	QFLB1H		0.04					/LA				E
	C514	QFLB1H	1J-104	0.1		50V			/LA				F
	C514	QFLB1H	IJ-104	0.1		501			/LA				G
	C514	QFLB1		0.1		50V			/LA				Н
	C515	QFLB1H		0.04					/LA				E
	C515	QFLB1F		0.1		50 V			/LA				F
	C515	QFLB1H		0.1		50V			/LA				G
	C515	QFLB1		0.1		501			LA				Н
	C516	QFLB1H	iJ-104	0.1		50V			LA				F
	C516	QFLB1H		0.1		50 V			/LA				G
	C516	QFLB1		0.1		50V			/LA				Н
1	C517	QFLB1		0.1		50 V			LA				F
l	C517	QFLB1	IJ-104	0.1	IF	501		M١	(LA	R			G
	C517	QFLB1	IJ-104	0.1M	1F	501	1	M١	/ L A	R			н
	C521	QCBB1H	IK-681	680F	F	50\		CE	ERA	MI	С		G
	C521	QCBB1H	łK-681	680F	F	50V			ERA				н
	C522	QETB1	M-226	22MF	:	501			_EC		0		
	C523	QFLB1	IJ-473	0.04					/LA				
	C524	QFLB1	1J-473	0.04	7MF	501	1	MY	LA	R			

A (: ISIAIFIEITIYI IPIAIRITIS)

Resistors

Δ	ITEM	PART	NUMBER	DES	C R I	P T I O N	AREA
-	R004	QRD167	71-222	2.2K	1/6W	CARBON	
. 1	R004		J-2R7S	2.7	1/4W	UNF.CARBON	I
Δ		QRD147		100K	1/6W	CARBON	1
1	R027			82K	1/6W	CARBON	1
	R028	QRD167			1/6W	CARBON	1
	R030	QRD167		47K			
	R031	QRD167		6.8K	1/6W	CARBON CARBON	ļ
	R034	QRD167		100K	1/6W		1
- 1	R038	QRD167		100K	1/6W	CARBON	
Δ	R047		J-100S	10	1/4W	UNF.CARBON	H
Δ.	R048		J-100S	10	1/4W	UNF.CARBON	H
	R060		7J-103	10K	1/6W	CARBON	1
	R061	QRD167	7J-152	1.5K	1/6W	CARBON	1
	R062	QRD167	7J-471	470	1/6W	CARBON	1
Δ	R063	QRXO12	2J-R68AM	0.68	1 W	M.FILM	E
Δ	R063	QRXO12	2J-R68AM	0.68	1 W	M.FILM	F
	R065	QRD16	7J-103	10K	1/6W	CARBON	
A	R067		2J-R47AM	0.47	1 W	M.FILM	E
A	R067		J-R47AM	0.47	1 W	M.FILM	F
Δ	R068		J-1ROS	1	1/4W	UNF.CARBON	
_	R069		J-1ROS	1	1/4W	UNF.CARBON	1
♠	R070		7J-332	3.3K	1/6W	CARBON	
	R084		71-332	3.3K	1/6W	CARBON	1
			CJ-1ROS	1	1/4W	UNF.CARBON	1
Δ	R085			1	1/4W	UNF.CARBON	
Δ	R086		CJ-1ROS	10K	1/6W	CARBON	1
	R087		7J-103			CARBON	
	R088		7J-103	10K	1/6W	CARBON	1
	R309		7J-753	75K	1/6W	CARBON	1
	R310		7J-753	75K	1/6W		
	R311		7J-103	10K	1/6W	CARBON	1
	R312		7J-103	10K	1/6W	CARBON	
	R313	1	7J-153	15K	1/6W	CARBON	1
	R314		7J-153	15K	1/6W	CARBON	}
	R317	QRD16	7J-123	12K	1/6W	CARBON	1
	R318	QRD16	7J-123	12K	1/6W	CARBON	1
	R319	QRD16	7J-683	68K	1/6₩	CARBON	
	R320	QRD16	71-683	68K	1/6W	CARBON	1
Δ	R321	QRZOO	77-220	22	1/4W	FUSIBLE	1
	R327		71-473	47K	1/6W	CARBON	
	R328		71-473	47K	1/6W	CARBON	1
	R332		71-332	3.3K	1/6W	CARBON	
	R333		7J-104	100K	1/6W	CARBON	
			7J-181	180	1/6W	CARBON	1
	R334			200	1/6W	CARBON	
_	R335		7J-201		1/4W	FUSIBLE	
Δ	R336		77-100	10		CARBON	
	R339		7J-623	62K	1/6W		
	R340	1	71-623	62K	1/6W	CARBON	1
	R341		7J-100	10	1/6W	CARBON	1
	R342		7J-100	10	1/6W	CARBON	1
	R343		71-222	2.2K	1/6W	CARBON	1
Δ	R344	QRZOO	77-5R6	5.6	1/4W	FUSIBLE	
	R347	QRD16	7J-224	220K	1/6W	CARBON	1
	R348	QRD16	7J-224	220K	1/6W	CARBON	1
	R349	QRD16	71-223	22K	1/6W	CARBON	1
	R351		71-102	1 K	1/6W	CARBON	
	R352	QRD16		1 K	1/6W	CARBON	1

Resistors

Δ	ITEM	PART	NUI	мв	ER	D	E	s	С	R	I	P	Т	I	0	N	AREA
	R353	QRD167				15K				161			-	ON			
	R354 R355	QRD167 QRD167				15K 24K				/61 /61				ON			
	R356	QRD167	J-24	43		24K				/61				ON			
	R357 R358	QRD167 QRD167				3.3 3.3				/61 /61				ON			
	R359	QRD167	J-27	23		22K			1	161	d	CA	RE	ON			
	R360 R361	QRD167 QRD167				22K 560				/61 /61				SON			
	R362	QRD167				560				/61		CA	RE	ON			
	R363	QRD167				2K				/61				NO8			
	R364 R365	QRD167				2K 10K				/61 /61				ON			
	R366	QRD167				1 M				/61				ON			
	R368	QRD167				270 1K				/61 /61				ON			
	R370	QRD167				1 K			1	161	Į	CA	RE	ON			
	R371 R372	QRD167				5.6				/61 /61				SON			
	R373	QRD167				10K				/61				ON			
	R374	QRD167				10K				161				ON			
	R375 R376	QRD167 QRD167				47K 47K				/61 /61				ON			
	R377	QRD167	7J-10	03		10K			1	161	J			ON			
	R378	QRD167				10K 10K				/61 /61				SON			
	R380	QRD167				10K				161		CA	RE	BON			
	R387	QRD167	7J-10	03		10K				/61 /61				SON			
	R388 R389	QRD167 QRD161				1K 220			1	161	٧			ON			
	R390	QRD161	17-2	21		220			1	161	N	CA	RE	ON			
	R391 R392	QRD167				8.2				/61 /61				3ON 3ON			
	R393	QRD167				5.6	Κ			/61		CA	RE	BON			
	R394	QRD167				5.6				161				ON			
	R395 R396	QRD167				10K				/61 /61				BON			
	R401	QRD167	71-2	23		22K				161				ON			
	R402 R403	QRD167				22K 3.6				/61 /61				BON BON			
	R404	QRD167				3.6			1	161	N			ON			
	R405	QRD167				68K				161				3ON 3ON			
	R406 R407	QRD167				68K				/61 /61				BON			
	R408	QRD167	7J-1	53		15K			1	161	À			ON			
	R409 R410	QRD167				15K				/61 /61				3ON 3ON			
	R410	QRD167				2K				161				BON			
	R412	QRD16				2 K				161				BON			
	R413	QRD16				1.8	K.			16				BON			
	R415	QRD16	71-3	01		300)		1	16	W			BON			
	R416 R417	QRD16				300				161				3ON 3ON			
	R418	QRD16				240				16				3 O N			
	R423	QRD16				1.2				16				30 N			
	R424	QRD16				6.8				16				30 N 30 N			
	R426	QRD16				6.8				16				BON			
	R431	QRD16	7 J – 3	94		390				16				30 N 30 N			
	R432 R433	QRD16				220				16				30N			
	R434	QRD16	1J-2	21		220				16				30 N			
	R438	QRD16				18K				16				30 N 30 N			
	R439	QRD16				22K				16				30 N			
	R441	QRD16				1.2				16				30 N 30 N			
	R442 R443	QRD16				2.4				16				30 N			
	R444	QRD16	71-2	42		2.4	K		. 1	16	W			BON			
	R445 R446	QRD16				220 10K				16				30 N 30 N			l
	R446	QRD16	7J-1	03		10K	(1	16	W	CA	ARI	BON			
	R448	QRD16				22K	(/6 /6				30N 30N			1
	R450 R451	QRD16	7J-1	02		1 K				16				30 N			
	R453	QRD16	71-4	70		47			1	16	W			ON			1
	R454 R455	QRD16				47 330) K			16				NOS NOS			1
	R456	QRD16	7J-3	34		330	K		1	16	W	C	R	30N			ļ
	R457	QRD16	71-4	32		4.3				16				30N 30N			
	R458 R459	QRD16				3 K	^^			16				30N			1
	R460	QRD16	7J-3	02		3 K				16				NOS			
	R461	QRD16				5.6				16				30N			
	R463	QRD16				7.5	ίK		1	16	W	C	A R I	30N			
	R464	QRD16	71-7	52		7.5				16				ON BON			
	R465 R466	QRD16				22K				/6 /6				30N			
	R467	QRD16	7J-1	05		1 M			1	16	₩.	C	\R	30N			1
	R468	QRD16				1 M				/6 /6				BON BON			1
	R469 R470	QRD16				1 M				/6				30N			
	R471	QRD16				470)			16				BON			1

Resistors

A R510 QRD14CJ-272S 2.7K 1/4W UNF.CARBON R511 QRD167J-102 1K 1/6W CARBON A R512 QRD14CJ-272S 2.7K 1/4W UNF.CARBON A R513 QRD14CJ-272S 2.7K 1/4W UNF.CARBON A R514 QRD14CJ-272S 2.7K 1/4W UNF.CARBON A R517 QRX012J-R22AM 0.22 1W M.FILM A R519 QRD14CJ-101S 100 1/4W UNF.CARBON E A R519 QRD14CJ-101S 100 1/4W UNF.CARBON F A R519 QRZ0077-101 100 1/4W FUSIBLE G A R519 QRZ0077-100 10 1/4W FUSIBLE H A R521 QRD14CJ-100S 10 1/4W UNF.CARBON A R521 QRD14CJ-100S 10 1/4W UNF.CARBON A R522 QRD14CJ-100S 10 1/4W UNF.CARBON A R523 QRD14CJ				Τ			
R473	⚠	ITEM	PART NUMBER	DES	SCRI	PTION	AREA
R477		R472	QRD167J-472	4.7K	1/6W	CARBON	
R478							
R478		R477	QRD167J-223	22K	1/6W	CARBON	
R501							
R502							
A R503		R502		100K			
A R504	Â						
R506		R504	QRD14CJ-561S	560	1/4W	UNF.CARBON	
R507		R505	QRD167J-471	470	1/6W	CARBON	
R508		R506	QRD167J-471	470	1/6W	CARBON	
A R509 QRD14CJ-272S 2.7K 1/4W UNF.CARBON R511 QRD14CJ-272S 2.7K 1/4W UNF.CARBON R511 QRD14CJ-102 1K 1/6W CARBON R512 QRD14CJ-272S 2.7K 1/4W UNF.CARBON R513 QRD14CJ-272S 2.7K 1/4W UNF.CARBON R513 QRD14CJ-272S 2.7K 1/4W UNF.CARBON R513 QRD14CJ-272S 2.7K 1/4W UNF.CARBON R515 QRX012J-R22AM 0.22 1W M.FILM M.FILM R519 QRD14CJ-101S 100 1/4W UNF.CARBON F519 QRD14CJ-101S 100 1/4W UNF.CARBON F519 QRZ0077-101 100 1/4W FUSIBLE G7 R519 QRZ0077-101 100 1/4W FUSIBLE H7 R520 QRZ0077-100 10 1/4W FUSIBLE H7 R520 QRZ0077-100 10 1/4W FUSIBLE H7 R521 QRZ014CJ-100S 10 1/4W UNF.CARBON W7 R525 QRZ014CJ-100S 10 1/4W UNF.CARBON W7 W7 UNF.CARBON W7 UNF.CARBON W7 W7 UNF.CARBON W		R507	QRD167J-104	100K	1/6W	CARBON	
A R510 QRD14CJ-272S 2.7K 1/4W UNF.CARBON R511 QRD167J-102 1K 1/6W CARBON R512 QRD167J-102 1K 1/6W CARBON R513 QRD14CJ-272S 2.7K 1/4W UNF.CARBON A R513 QRD14CJ-272S 2.7K 1/4W UNF.CARBON D R517 QRX012J-R22AM 0.22 1W M.FILM M.FI		R508	QRD167J-104	100K	1/6W	CARBON	
R511	Δ	R509	QRD14CJ-272S	2.7K	1/4W	UNF.CARBON	
R512	Δ	R510	QRD14CJ-272S	2.7K	1/4W	UNF.CARBON	
A R513 QRD14CJ-272S 2.7K 1/4W UNF.CARBON R514 QRD14CJ-272S 2.7K 1/4W UNF.CARBON R514 QRD14CJ-272S 2.7K 1/4W UNF.CARBON M.FILM W.FILM M.FILM M		R511	QRD167J-102	1K	1/6W	CARBON	
A R513 QRD14CJ-272S 2.7K 1/4W UNF.CARBON R514 QRD14CJ-272S 2.7K 1/4W UNF.CARBON R514 QRD14CJ-272S 2.7K 1/4W UNF.CARBON M.FILM W.FILM M.FILM M		D512	0PD1671-102	1 K	1/6W.	CARRON	
A R514 QRD14CJ-272S 2.7K 1/4W UNF.CARBON R517 QRX012J-R22AM 0.22 1W M.FILM M.F							
A R517 QRX012J−R22AM O-22 1W M.FILM A R518 QRX012J−R22AM O-22 1W M.FILM A R519 QRX012J−R22AM O-22 1W M.FILM A R519 QRX012J−R22AM O-22 1W M.FILM A R519 QRX014CJ−101S 100 1/4W UNF.CARBON F A R519 QRX0077-101 100 1/4W FUSIBLE H A R519 QRX0077-100 10 1/4W FUSIBLE H A R520 QRX0077-100 10 1/4W FUSIBLE H A R521 QRD14CJ−100S 10 1/4W UNF.CARBON A R522 QRD14CJ−100S 10 1/4W UNF.CARBON A R524 QRD14CJ−100S 10 1/4W UNF.CARBON A R525 QRD14CJ−10OS 10 1/4W UNF.CARBON A R526 QRD14C							
A R518 QRX012J-R22AM 0.22 1W M.FILM A R519 QRD14CJ-101S 100 1/4W UNF.CARBON E A R519 QRD14CJ-101S 100 1/4W UNF.CARBON F A R519 QRZ0077-101 100 1/4W FUSIBLE G A R519 QRZ0077-100 10 1/4W FUSIBLE H A R520 QRD14CJ-100S 10 1/4W UNF.CARBON M A R522 QRD14CJ-100S 10 1/4W UNF.CARBON M A R523 QRD14CJ-100S 10 1/4W UNF.CARBON M A R524 QRD14CJ-100S 10 1/4W UNF.CARBON M A R525 QRD167J-472 4.7K 1/6W CARBON M A R525 QRD167J-472 4.7K 1/6W CARBON M R525 QRD1601-503A 50K VARIABLE							
A R519 QRD14CJ-101S 100 1/4W UNF.CARBON E R519 QRD14CJ-101S 100 1/4W UNF.CARBON F QRD14CJ-101S 100 1/4W FUSIBLE G R519 QRZ0077-101 100 1/4W FUSIBLE H R520 QRZ0077-100 10 1/4W FUSIBLE H R520 QRD14CJ-100S 10 1/4W UNF.CARBON A R521 QRD14CJ-100S 10 1/4W UNF.CARBON D R522 QRD14CJ-100S 10 1/4W UNF.CARBON D R525 QRD167J-472 4.7K 1/6W CARBON D R526 QRD167J-472 4.7K 1/6W CARBON D R52		1					
A R519 QRD14CJ-101S 100 1/4W UNF.CARBON F A R519 QRZ0077-101 100 1/4W FUSIBLE G G A R519 QRZ0077-100 100 1/4W FUSIBLE H E G G A R521 QRD14CJ-100S 10 1/4W UNF.CARBON D G G G G G G G G G G G G G G G G G G							E
A R519 QRZ0077-101 100 1/4W FUSIBLE GA R520 QRZ0077-101 100 1/4W FUSIBLE HA R520 QRZ0077-100 10 1/4W FUSIBLE HA R521 QRD14CJ-100S 10 1/4W UNF.CARBON A R522 QRD14CJ-100S 10 1/4W UNF.CARBON MARS23 QRD14CJ-100S 10 1/4W UNF.CARBON A R523 QRD14CJ-100S 10 1/4W UNF.CARBON A R524 QRD16CJ-672 4.7K 1/6W CARBON CARBON A R525 QRD16CJ-672 4.7K 1/6W CARBON A R526 QRD16CJ-672 10 1/4W UNF.CARBON A R527 QRG02ZJ-122AM 1.2K 2W 0.M.FILM UNF.CARBON A R528 QRZ0077-100 10 1/4W UNF.CARBON A R528 QRZ0077-100 10 1/4W UNF.CARBON A R528 QRZ0077-100 10 1/4W FUSIBLE WR311 QVPA601-503A 50K VARIABLE VR311 QVPA601-503A 50K VARIABLE VR331 QVPA601-201A 200K VARIABLE VR453 QVPA601-201A 200K VARIABLE VR453 QVPA601-201A 200 VARIABLE VR453 QVPA601-201A 200 VARIABLE VR454 QVPA601-201A 200 VARIABLE VR455 QVPA601-201A 200 VARIABLE VR455 QVPA601-201A 200 VARIABLE VR455 QVPA601-201A 200 VARIABLE VR455 QVPA601-203A 20K VARIABLE VR456 QVPA601-203A 20K VARIABLE							
A R519 QRZ0077-101 100 1/4W FUSIBLE H A R520 QRZ0077-100 10 1/4W FUSIBLE H A R521 QRD14CJ-100S 10 1/4W UNF.CARBON A R522 QRD14CJ-100S 10 1/4W UNF.CARBON A R523 QRD14CJ-100S 10 1/4W UNF.CARBON A R524 QRD14CJ-100S 10 1/4W UNF.CARBON A R525 QRD167J-472 4.7K 1/6W CARBON A R526 QRD167J-472 4.7K 1/6W CARBON A R527 QRG02ZJ-122AM 1.2K 2W 0.M.FILM A R528 QRZ0077-100 10 1/4W FUSIBLE A R529 QRZ0077-100 10 1/4W FUSIBLE VR311 QVPA601-503A 50K VARIABLE VR331 QVPA601-503A 50K VARIABLE VR332 QVPA601-204A 200K VARIABLE VR332 QVPA601-204A 200K VARIABLE VR453 QVPA601-201A 200 VARIABLE VR453 QVPA601-201A 200 VARIABLE VR454 QVPA601-201A 200 VARIABLE VR455 QVPA601-203A 20K VARIABLE VR456 QVPA601-203A 20K VARIABLE VR456 QVPA601-203A 20K VARIABLE VR456 QVPA601-203A 20K VARIABLE VR456 QVPA601-203A 20K VARIABLE							
A R520 QRZ0077-100 10 1/4W FUSIBLE A R521 QRD14CJ-100S 10 1/4W UNF.CARBON A R522 QRD14CJ-100S 10 1/4W UNF.CARBON A R523 QRD14CJ-100S 10 1/4W UNF.CARBON A R525 QRD14CJ-100S 10 1/4W UNF.CARBON A R526 QRD14CJ-10OS 10 1/4W UNF.CARBON A R527 QRG022J-122AM 1.2K 2W O.M.FILM A R528 QRG022J-122AM 1.2K 2W O.M.FILM VR311 QVPA601-503A 50K VARIABLE VR331 QVPA601-204A 200K VARIABLE VR452 QVPA601-204A 200K VARIABLE VR453 QVPA601-201A 200 VARIABLE VR453 QVPA601-201A 200 VARIABLE VR454 QVPA601-201A 200 VARIABLE VR454 QVPA601-2				100	1/4W		н
A R521 QRD14CJ-100S 10 1/4W UNF.CARBON A R522 QRD14CJ-100S 10 1/4W UNF.CARBON M R523 QRD14CJ-100S 10 1/4W UNF.CARBON M R524 QRD14CJ-100S 10 1/4W UNF.CARBON M R525 QRD167J-472 4.7K 1/6W CARBON M R525 QRD167J-472 4.7K 1/6W CARBON M R527 QRG02J-122AM 1.2K 2W 0.M.FILM M R528 QR20077-100 10 1/4W FUSIBLE M R580 QRG022J-122AM 1.2K 2W 0.M.FILM M R580 QRG02J-122AM 1.2K 2W 0.M.FILM M R580 QRG02J-122AM 1.2K 2W 0.M.FILM M R581 QVPA601-503A 50K VARIABLE WR311 QVPA601-503A 50K VARIABLE WR331 QVPA601-204A 200K VARIABLE WR331 QVPA601-204A 200K VARIABLE WR453 QVPA601-201A 200 VARIABLE WR453 QVPA601-201A 200 VARIABLE VR453 QVPA601-201A 200 VARIABLE VR454 QVPA601-201A 200 VARIABLE VR455 QVPA601-201A 200 VARIABLE VR455 QVPA601-201A 200 VARIABLE VR456 QVPA601-203A 20K VARIABLE VR457 QVPA601-203A 20K VARIABLE VR457 QVPA601-203A 20K VARIABLE VR456 QVPA601-203A 20K VARIABLE VR457 QVPA601-203A 20K VARIABLE			QRZ0077-100	10	1/4W	FUSIBLE	
A R522 QRD14CJ-100S 10 1/4W UNF.CARBON R523 QRD14CJ-100S 10 1/4W UNF.CARBON WNF.CARBON R525 QRD14CJ-100S 10 1/4W UNF.CARBON WNF.CARBON R525 QRD14CJ-100S 10 1/4W UNF.CARBON WNF.CARBON WNF				10		UNF.CARBON	
R523		R522	QRD14CJ-100S	10	1/4W	UNF.CARBON	
A R524 QRD14CJ-100S 10 1/4W UNF.CARBON R525 QRD167J-472 4.7K 1/6W CARBON A R526 QRD14CJ-100S 10 1/4W UNF.CARBON A R527 QRG02ZJ-122AM 1.2K 2W 0.M.FILM A R580 QRG02ZJ-122AM 1.2K 2W 0.M.FILM VR311 QVPA601-503A 50K VARIABLE VR331 QVPA601-503A 50K VARIABLE VR331 QVPA601-204A 200K VARIABLE VR453 QVPA601-204A 200K VARIABLE VR452 QVPA601-201A 200 VARIABLE VR453 QVPA601-201A 200 VARIABLE VR454 QVPA601-201A 200 VARIABLE VR454 QVPA601-203A 20K VARIABLE VR456 QVPA601-203A 20K VARIABLE VR456 QVPA601-203A 20K VARIABLE	Δ	R523	QRD14CJ-100S	10	1/4W	UNF.CARBON	
R525		R524	QRD14CJ-100S	10	1/4W	UNF.CARBON	
A R527 QRG022J-122AM 1.2K 2W 0.M.FILM A R528 QRZ0077-100 10 1/4W FUSIBLE A R580 QRG022J-122AM 1.2K 2W 0.M.FILM VR311 QVPA601-503A 50K VARIABLE VR331 QVPA601-203A 50K VARIABLE VR331 QVPA601-204A 200K VARIABLE VR451 QVPA601-201A 200 VARIABLE VR452 QVPA601-201A 200 VARIABLE VR453 QVPA601-201A 200 VARIABLE VR454 QVPA601-201A 200 VARIABLE VR454 QVPA601-203A 20K VARIABLE VR455 QVPA601-203A 20K VARIABLE VR456 QVPA601-203A 20K VARIABLE VR457 QVPA601-203A 20K VARIABLE		R525	QRD167J-472	4.7K	1/6W	CARBON	
A R527 QRG022J-122AM 1.2K 2W 0.M.FILM A R528 QRZ0077-100 10 1/4W FUSIBLE A R580 QRG022J-122AM 1.2K 2W 0.M.FILM VR311 QVPA601-503A 50K VARIABLE VR331 QVPA601-204A 200K VARIABLE VR331 QVPA601-204A 200K VARIABLE VR451 QVPA601-201A 200 VARIABLE VR452 QVPA601-201A 200 VARIABLE VR453 QVPA601-201A 200 VARIABLE VR454 QVPA601-201A 200 VARIABLE VR455 QVPA601-203A 20K VARIABLE VR456 QVPA601-203A 20K VARIABLE VR456 QVPA601-203A 20K VARIABLE VR457 QVPA601-203A 20K VARIABLE	Δ	R526	QRD14CJ-100S	10	1/4W	UNF.CARBON	
A R580 QRG022J-122AM 1.2K 2W 0.M.FILM VR311 QVPA601-503A 50K VARIABLE VR312 QVPA601-503A 50K VARIABLE VR331 QVPA601-204A 200K VARIABLE VR451 QVPA601-204A 200K VARIABLE VR452 QVPA601-201A 200 VARIABLE VR452 QVPA601-201A 200 VARIABLE VR453 QVPA601-201A 200 VARIABLE VR454 QVPA601-201A 200 VARIABLE VR455 QVPA601-203A 20K VARIABLE VR456 QVPA601-203A 20K VARIABLE VR457 QVPA601-203A 20K VARIABLE	Δ	R527	QRG022J-122AM	1.2K	2 W	O.M.FILM	
VR311	Δ	R528	QRZ0077-100				
VR312 QVPA601-503A SOK VARIABLE VR331 QVPA601-204A 200K VARIABLE VR332 QVPA601-204A 200K VARIABLE VR451 QVPA601-201A 200 VARIABLE VR452 QVPA601-201A 200 VARIABLE VR453 QVPA601-201A 200 VARIABLE VR454 QVPA601-201A 200 VARIABLE VR455 QVPA601-203A 20K VARIABLE VR456 QVPA601-203A 20K VARIABLE VR456 QVPA601-203A 20K VARIABLE VR457 QVPA601-203A 20K VARIABLE VR456 QVPA601-203A 20K VARIABLE	Δ	R580	QRG022J-122AM	1.2K	2 W		
VR331 QVPA601-204A 200K VARIABLE VR451 QVPA601-204A 200K VARIABLE VR451 QVPA601-201A 200 VARIABLE VR452 QVPA601-201A 200 VARIABLE VR453 QVPA601-201A 200 VARIABLE VR454 QVPA601-201A 200 VARIABLE VR455 QVPA601-203A 20K VARIABLE VR456 QVPA601-203A 20K VARIABLE VR457 QVPA601-203A 20K VARIABLE VR457 QVPA601-203A 20K VARIABLE							·
VR332 QVPA601-204A 200K VARIABLE VR451 QVPA601-201A 200 VARIABLE VR452 QVPA601-201A 200 VARIABLE VR453 QVPA601-201A 200 VARIABLE VR454 QVPA601-201A 200 VARIABLE VR454 QVPA601-201A 200 VARIABLE VR455 QVPA601-203A 20K VARIABLE VR456 QVPA601-203A 20K VARIABLE VR457 QVPA601-203A 20K VARIABLE VR457 QVPA601-203A 20K VARIABLE							
VR451 QVPA601-201A 200 VARIABLE VR452 QVPA601-201A 200 VARIABLE VR453 QVPA601-201A 200 VARIABLE VR454 QVPA601-201A 200 VARIABLE VR455 QVPA601-203A 20K VARIABLE VR456 QVPA601-203A 20K VARIABLE VR456 QVPA601-203A 20K VARIABLE VR457 QVPA601-203A 20K VARIABLE VR457 QVPA601-203A 20K VARIABLE							
VR452 QVPA601-201A 200 VARIABLE VR453 QVPA601-201A 200 VARIABLE VR454 QVPA601-201A 200 VARIABLE VR455 QVPA601-203A 20K VARIABLE VR456 QVPA601-203A 20K VARIABLE VR457 QVPA601-203A 20K VARIABLE VR457 QVPA601-203A 20K VARIABLE							
VR453 QVPA601-201A 200 VARIABLE VR454 QVPA601-201A 200 VARIABLE VR455 QVPA601-203A 20K VARIABLE VR456 QVPA601-203A 20K VARIABLE VR457 QVPA601-203A 20K VARIABLE							
VR454 QVPA601-201A 200 VARIABLE VR455 QVPA601-203A 20K VARIABLE VR456 QVPA601-203A 20K VARIABLE VR457 QVPA601-203A 20K VARIABLE							
VR455 QVPA601-203A 20K VARIABLE VR456 QVPA601-203A 20K VARIABLE VR457 QVPA601-203A 20K VARIABLE							
VR456 QVPA601-203A 20K VARIABLE VR457 QVPA601-203A 20K VARIABLE							
VR457 QVPA601-203A 20K VARIABLE							
VK458 WVFAOU1-205A ZUK VAKTABLE							
		VK458	WVPA601-203A	CUK		ANKINDEE	

A ITISIA:FIEITIYI IPIAIRITISI

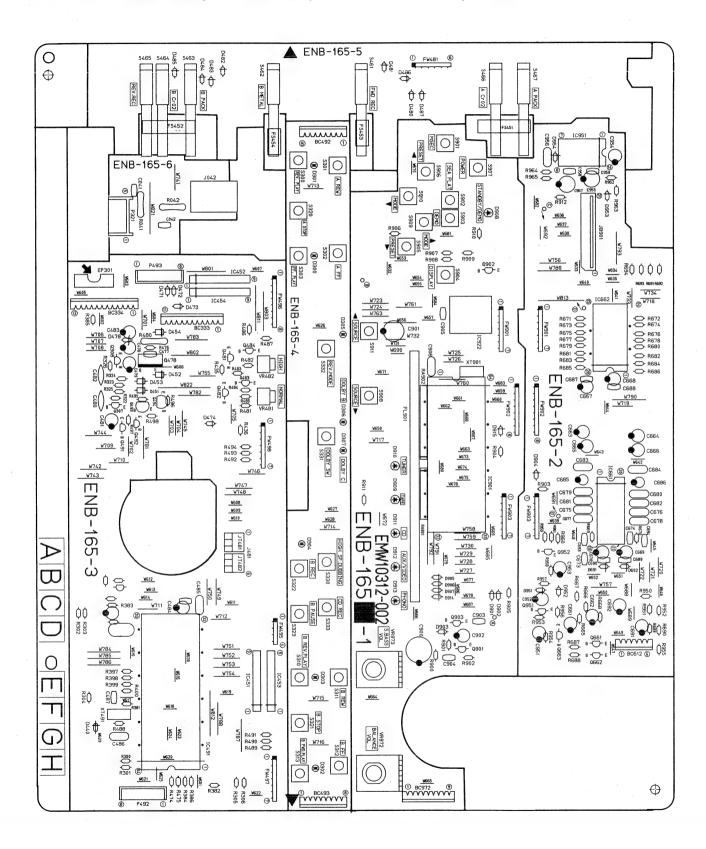
Others

01.	1013														
҈Ѧ	ITEM	PART	NUMBE	R D	E	S	С	R	I	Р	Т	I	0	N	AREA
	J041	EMB901	V-402A	SPE	ΑK	ER	T	ERM	1 I N	AL					
1	K401	ENZ810		IND	UC	TO	R								н
1	K402	ENZ810	1-007	IND	UC	ΤO	R								н
1	L321	EQL210	6-223	IND	UC	TO	R								
	L322	EQL210	6-223	IND	UC	TO	R								
	L331	ENZ600	2-010	OSC	IL	LA	TO	R C	01	L					
	L333	EQL210	6-223	IND	uс	ΤO	R								
	L334	EQL210	6-223	IND	UC	ΤO	R								
	L401	EQL210	6-562	IND	UC	ΤO	R								
	L402	EQL210	6-562	IND											
	L501	EQLOOG	1-R45	IND	UC	TO	R								
	L502	EQLOOC	1-R45	IND											
	L503)4-2R2	IND											н
l	L505	EQL400		IND											E
l	L505		4-1R0	IND											F
	P331		3-007	PLU	_				-						
1	P332		3-003	PLU											
	P333	EMV514		PLU											
1	P334	EMV514		PLU											
	\$310	QSS6A1		SLI							UT)				
	BC321	EWS245		SOC					5PIN	1					
	EP401	E70225		EAR											
	JB001		5-004R	CON											
	JB401		0-L11R	CON											
	JB402		5-004R	CON											
	JB501		5-013R	CON											
	JB561	EMV712	5-010R	CON	NE	CT	URS	10P	IM)						

Δ (: SIAIF ETY) PIAIRITIS

■ENB-165 System & Deck Controller PC Board Ass'y

Note: ENB-165 ☐ varies according to the areas employed. See note (1) when placing an order.



Note (1)

• •	
PC Board Ass'y	Designated Areas
ENB-165 A	the U.S.A., Canada
ENB-165 B	Australia , Scandinavia Continental Europe Taiwan , Universal Type
ENB-165 C	the U.K.
ENH-165 D	Germany , Italy

Transistors

Δ	I T E M	PAF	гт	N	UM	ВЕ	R	D	Е	s	С	R	I	Р	т	I	0	N	AREA
	Q307	250	17	405	CR.	, S)		SIL	10	ON		-	ROI	H.					
	Q308	250	174	405	CR.	, S)		SIL	.IC	ON		- 1	ROF	HM.					
	Q478	2SD	20	37 (E .	F)		SIL	IC	ON		1	ROI	IM.					1
	Q481	2SC	174	405	(R.	·S)		SIL	IC	ON		-	ROI	۱M					l
1	Q482	2SC	17	405	CR.	·S)		SIL	. 10	ON		1	ROI	ΗM					
	Q483	2SA	93	35 (R.	5)		SIL	IC	ON		1	ROI	HM.					1
	Q484	2SA	93	35 (R/	S)		SIL	IC	ON		1	R'O I	IM.					
	0491	DTC	144	4 E S	;			SIL	IC	ON		-	ROI	HM:					1
	0492	DTC	14	4 E S	;			SIL	IC	ON		1	ROI	HH.					1
	Q493	2SA	934	4(6	R.)		SIL	IC	ON		1	ROI	HH.					
	Q494	2SA	934	4 (6	R.)		SIL	IC	ON		1	ROI	HM.			• • • • • • • • • • • • • • • • • • • •		1
	0661	2SD	214	445	CVI	4)		SIL	IC	ON		i	ROI	1M					
	0662	2SD	214	445	(VI	4)		SIL	IC	ON		1	ROI	HM.					l
	0663	DTA	144	4 E S	;			SIL	IC	ON		-	ROI	HH.					İ
	0901	DTC	114	4 Y S	;			SIL	10	ON		-	ROI	HM:					
	0902	DTA	114	4 E S	3			SIL	IC	ON			ROI	IM.			• • • • •		
	Q903	DTA	114	4ES	3			SIL	IC	ON		-	ROI	1M					
	Q951	25C	174	405	CR.	·S)		SIL	IC	ON		-	ROF	HH.					l
-	Q952	250	174	405	(R.	·S)		SIL	IC	ON		- 1	ROF	ΗM					
L_	4752	230	1/,	+03		-31		316		, UN					(C. 13 IA.)				J. Salar Salar

▲ (: ISIA:FIEITIYI | IPIAIRITIS;

I.C.s

Δ	ITEM	PART NUMBER	DESCI	RIPTION	AREA
	IC451 IC452 IC453 IC454 IC491 IC661 IC662 IC901 IC922 IC951	BA6218 BA6218 BA6218 HD6140818C34 M5243F12 TC9163N MN171202JHD SPS-420-1 XR1097CP	I.C. I.C. I.C. I.C. I.C. I.C. I.C. I.C.	ROHM ROHM ROHM ROHM HITACHI MITSUBISHI TOSHIBA MATSUSHITA SANYO EXAR JAPAN	

▲ (: ISIAIFIEITIYI | IPIAIRITIS

Diodes

Δ	ІТЕМ	PART	NUM	BER	D	E	s	С	R	I	P	Т	I	0	N	ARE	A
	D300	SLR-34	MC3F		L.E	. D			F	105	M						
	D301	SLR-34	MC3F		L.E	. D			F	109	M						
	D302	SLR-34	MC3F		L.E	. D			F	109	M						
l	D303	SLR-34	MC3F		L.E	. D			F	ROF	M						
	D304	SLR-3	VC3F		L.E	. D			F	ROF	M						
	D305	SLR-3	VC3F		L.E	. D	•		F	ROF	M						
	D306	SLR-3	4VC3F		L.E	. D			F	ROF	M						
	D451	1SR139	9-200		SIL	ΙC	ON		F	ROF	M						
	D452	1SR139	9-200		SIL	.IC	ON		F	ROF	M						
	0453	1SR139	9-200		SIL	IC	ON		F	105	M						
	D454	1SR139	2-200		SIL	IC	ON		F	ROF	M						
l	D471	18813	3		SIL	IC	ON		F	109	M					1	
	D472	18813	3		SIL	.IC	ON		F	105	М					1	
	D473	18813	3		SIL	IC	ON		F	105	M						
	0474	18813	3		SIL	IC	ON		F	ROF	IM					l	
	D478	MTZ6.	2 J C		ZEN	ER				ROF							
	D480	18813	3		SIL					ROF							
	D481	18813	3		SIL	. I C	ON		F	105	M						
l	D483	18813	3		SIL	. I C	ON		F	109	IM						
l	D484	18813	3		SIL	IC	ON		F	105	M						,
	D485	18813	3		SIL					105							
	D486	18813	3		SIL					ROF							
	D487	18813			SIL					108						1	
	D691	MTZ7.			ZEN					108							
l	D692	MTZ7.			ZEN					108							
	D901	18813			SIL					ROF							
l	D902	18813			SIL				-	105							
l	D903	18813			SIL					105							
1	D904	18813			SIL					105						1	
	D905	18813	3		SIL	IC	ON			108						1	
								-	Δĺ	: 18	Ail	Έ	TIY		PIAI	RITIS	

Diodes

⚠	ІТЕМ	PART	NUM	BER	D	E	s	C	R	ı	Р	Т	I	0	N	AREA
	D906	188133			SIL	IC	ON		F	105	M					
	D907	188133	;		SIL	IC	ON		F	ROF	M					
- 1	D908	SLR-34	VC3F		L.E	. D			F	105	M					Α
	D908	SLR-34	VC3F		L.E	. D			F	ROF	М					В
	D908	SLA-58	OLT3F	:	L.E	. D			F	ROF	M					С
	D908	SLR-34	VC3F		L.E	. D			F	ROF	M					D
	D909	SLR-34	VC3F		L.E	. D			F	ROF	М					
	D910	SLR-34	VC3F		L.E	. D			F	108	М					
	D911	SLR-34	VC3F		L.E	. D			F	ROF	M					
	D912	SLR-34	VC3F		L.E	. D				105						
	D913	SLR-34	VC3F		L.E	. D			F	108	M					
	D914	188133			SIL	IC	ON		F	108	M					
	D915	188133			SIL	ΙC	ON		F	ROF	M					
	D951	188133			SIL					ROF						
	D952	188133			SIL	IC	ON		F	ROF	IM					
	D953	188133			SIL	IC	ON		F	ROF	M					
	D954	MTZ5.1	JC		ZEN	ER			F	ROF	M					
																CiTric.

A I SIAIFIEITIYI PIAIRITIS

Capacitors

Δ	ІТЕМ	PART	NUMB	ER	D E	s	С	R	I	P	Т	I	0	N	AREA
\neg	C041	QCBB1H	IK-221		220P	F	50	οv		CE	RA	M T	С		
- 1	C042		K-221		220P		-	οv			RA				
- 1	C477		M-103		0.01			5 V			RA				
- 1	C478		M-476		47MF			οv			EC				
1	C479	QETB1			47MF			οv			EC				
	C480		IP-223		0.02	2 M F		οv	•••••		RA				
- 1	C481		M-105		1MF			οv			EC				
- 1	C482		IP-223		0.02	2MF		vc			RA				
- 1	C483		M-476		47MF			5 V			EC				
- 1	C484		M-476		47MF			5 V			EC				
	C485		05-155		1.5M			5 V			RA				
	C486		J-473		0.04			۷C			LA				
- 1	C487		M-103		0.01			5 V			RA		С		
	C661		9-106		10MF		_				EC				
- 1	C662		9-106		10MF						EC				
	C663		M-476		47MF		25	śν			ΕĊ				
1	C664		M-476		47MF			5 V			EC				
	C665		M-476		47MF			5 V			EC.				
	C666		M-476	1	47MF			5 V			EC				
-	C667		M-476		47MF			5 V			EC				
	C668		M-476		47MF	•••••		5 V			EC				
- 1	C669		M-226		22MF			5 V			E C				
	C670		M-226		22MF			5 V		EL	EC	TR	0		
	C673		K-821		820P		50	VC		CE	RA	ΜI	C ·		
	C674	QCGB1	K-821		820P	F	50	٧C		CE	RA	MI	С		
	C675		J-471		470P			٥V		MY	LA	Ř			
	C676		J-471		470P			٥v			LA				
	C677		J-272		2700	PF	50	VC		MY	LA	R			
	C678		J-272		2700		50	٧C		MY	LA	R			
- 1	C679	QFLB1	IJ-822		8200	PF	50	٧C		MY	LA	R			
	C680		IJ-822		8200	PF	50	ÓΫ́		MY	LA	Ř			
- 1	C681	QFV81	J-473		0.04		-50	٧C		т.	FI	L,M			
	C682		J-473		0.04	7MF	50	VC		т.	FΙ	LM			
	C683	QFV81H	11-154		0.15	MF	50	VC		т.	FΙ	LM			
	C684	QFV81	IJ-154		0.15	MF	50	VC			FI				
	C685	QER51	M-684		0.68		50	٥v		EL	EC	TR	0		
	C686	QER51	M-684		0.68	MF	5 (٧C			EC.				
	C691	EEZ500	9-106		10MF					EL	EC.	TR	0		
	C692		9-106		10MF					EL	E C	TR	0		
	C699	QCS21H	J-561	1	560P	F	50	VC		CE	RA	MI	С		
	C900		M-108		1000			.31	,	EL	EC	TR	0		
	C901		M-227		220M	F	10	٧c		EL	EC.	TR	0		
	C902		M-225		2.2M		50	٥v		EL	EC	TR	0		
	C903		M-103		0.01		16	5 V		CE	RA	IM	С		
	C904		M-103		0.01	MF	16	5 V		CE	RA	MI	C		
	C905		Z-223		0.02			5 V		CE	RA	ΜI	C		
- 1	C906		2-223		0.02			5 V		CE	RA	ΜÍ	С		
	C951		M-106		10MF			5 V			EC				
	C952		HM-105		1MF			٥v			EC.				
	C953		IP-473		0.04	7MF	50	VC		CE	RA	MI	С		
	C954		M-476		47MF			5 V			EC				
	C955		M-227		220M			٠3١	,		EC				
	C956		J-102	- 1	1000			οv			LA				
	C957		M-227		220M			. 3۱	,		EC		0		
	C958		M-103	1	0.01			5 V			RA				
	C959		M-103		0.01			5 V			RA				
- 1	0,07	~~~~	100					•							

▲ :: SIA; FIEITIYI | PIA; RITIS

Resistors

Δ	ITEM	PART	NUMBER	D E	s s	С	R	I	Р	Т	I .	0	N	AREA
	R041		J-331S	330			/ 2 W			NET				
	R042	QRD120	CJ-331S 7J-331	330 330			/2W /6W			NET RBC		,,,,	•	
	R301	QRD167		330		1.	/6W	1		RBO				
	R302	QRD167		330			6W			RBC				
	R303 R304	QRD167		330 560			/6W /6W			RB(
	R305	QRD167		560			/6W			RBO				
	R306	QRD167		560			ÓW			RBC				
	R322 R323	QRD167		75K			/6W			RBO				
	R324	QRD167		10K			6W			RBO				
	R325	QRD167		75K			16W			RBO				
	R326 R381	QRD167 QRD167		1M 4.7K			/6W			RB0				
•••••	R382	QRD167		10K	.,		16W			RBO				
	R383	QRD167		270			6W			RBC				
	R384 R385	QRD167 QRD167		10K			/6W			RB(
	R397	QRD167		10K			6W			RBC				
	R398	QRD167		10K			6W			RBC				
	R399	QRD167		10K 10K			/6W /6W			RB(
	R435	QRD167		10K			6W			RBC				
	R436	QRD167		10K			6W			RBC				
	R474 R475	QRD167 QRD167		2.2K 10K			′6₩ ′6₩			RB(
	R475	QRD167		1 K			6W			RBC				
⚠	R480	QRD140	J-4R7S	4.7		1/	4 W		UN	F.(AF	В	N	
	R481 R482	QRD167		15K 18K			6W			RBC RBC				
	R482	QRD167		180K			6W			RB(
	R484	QRD167	7J-224	220K		1 /	6W		CA	RBC	N			
	R485	QRD167		68K			6W			RBC				
	R486 R487	QRD167 QRD167		220K 220K			6W			RBC RBC				
	R488	QRD167		1 M			6W			RBC				
	R489	QRD167		10K			6W			RBC				
	R490 R491	QRD167 QRD167		10K 10K			, Q M			RBC RBC				
	R492	QRD167	7J-103	10K			6W			RBC				
	R493	QRD167	J-103	10K			6 W			RBC				
	R494	QRD167 QRD167		10K 10K			6W 6W			RBC RBC				
	R495 R496	QRD167		10K			6W			RBC				
	R497	QRD167		1 K		1/	6W		CA	RBC	N			
	R498	QRD167		1 K			6W			RBC				1.0
	R665 R666	QRD167 QRD167		100K			6W			RBC RBC				
	R667	QRD167		10K			6W		CA	RBC	N			
	R668	QRD167		10K			6W			RBC				
	R669 R670	QRD167 QRD167		10K 10K			6W 6W			RB(
	R671	QRD167		33K			6 W			RBC				
	R672	QRD167	7J-333	33K		1,	6 W	,	CA	RBC	N			
	R673	QRD167		5.6K			6W			RBC				
	R674 R675	QRD167 QRD167		5.6K 24K			'6W '6W			RB(
	R676	QRD167		24K		1	6W		C A	RBC	N			
	R677	QRD167	J-912	9.1K	·		6W			RBC				
	R678 R679	QRD167 QRD167		9.1K 18K			'6W '6W			RB0 RB0				
	R680	QRD167		18K			6W			RBC				
	R681	QRD167	7J-472	4.7K		1/	6W			RBC				
	R682 R683	QRD167 QRD167		4.7K 12K			6W			RB(
	R684	QRD167		12K			6W			RBC				
	R685	QRD167	J-303	30K		1,	′6₩		C A	RBC	N			
	R686	QRD167		30K			16W			RBC				
• • • • •	R687 R688	QRD167 QRD167		10K 10K			6W			RB(
	R689	QRD167	7J-472	4.7K		1 /	6W		CA	RBO	NC			
	R690	QRD167		4.7K			6W			RBO				
	R691 R692	QRD167 QRD167		330 330			/6W /6W			RB(
	R693	QRD167		330		1	16W)		RBC				
	R694	QRD167	7J-331	330			6W			RBC				
	R900 R901	QRD167		100 100K			/6W /6W			RB0				
	R901	QRD167		100K	•		/6W			RB				
****	R903	QRD167	7J-104	100K		1,	16W		CA	RBC	N			
	R904	QRD167		47K			16W			RBO				
	R905 R906	QRD167		100K 47K	•		/6W /6W			RB(
	R907		71-473	47K			16W			RBC				
	R908	QRD167	71-473	47K			/6W			RBO				
	R909 R910	QRD167 QRD161	7J-473 1J-221	47K 220			/6W /6W			RBO				
	R911		71-270	27			6W			RB				
	R912	QRD167		430			16W			RBO			S. 7. 7.	RITIS:

Resistors

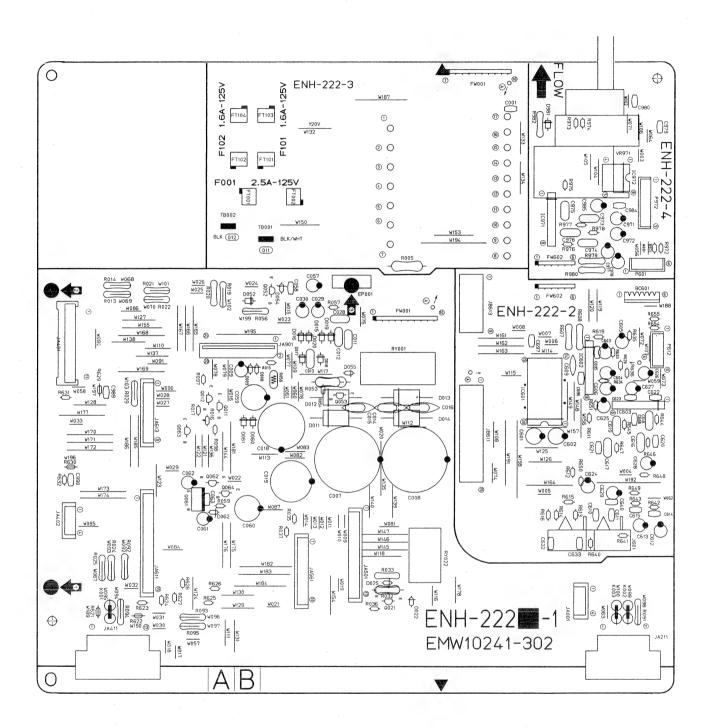
Δ	I T E M	PART	иимві	ΞR	D	E	s	С	R	I	Р	Т	I	0	N	A	RE	A
	R950	QRD167	J-104		100				161			RB						
	R951	QRD167.	J-104		100	K		1,	161	W	C A	RB	ON					
	R952	QRD167	J-104		100	ΙK		1.	161	W	C A	RB	ON					
	R953	QRD167	J-204		200	K		1.	161	W.	C A	RΒ	ON					
1	R954	QRD167	J-474		470	K		1.	161	w	CA	RB	ON			l		
	R955	QRD167	J-512		5.1	K		1.	161	ri i	CA	RB	ON					
	R956	QRD167	J-102		1 K			1.	161	d	CA	RB	ON					
	R957	QRD167	J-104		100	K		1.	161	W		RB						
	R958	QRD167	J-103		10K				161			RB						
	R959	QRD167	J-273		27K			1	161	W		RB						
	R960	QRD167.	J-473		47K				161			RB						
	R961	QRD167	J-562		5.6	K		1.	161	W		RΒ						
	R962	QRD167	J-223		22K				161			RB	-					
	R963	QRD167	J-223		22K				161			RB						
	R964	QRD167	J-152		1.5	K		1.	161	W		RB						
	R965	QRD167	J-563		56K			1.	161	W	C A	RB	ON			1		
	VR481	QVPA60	3-103A		10K						V A	RI	ΑB	LΕ				
	VR482	QVPA60	3-203A		20K						V A	RI	AΒ	LΕ				
	VR972	QVJB84	M-E54B		50K						VA	RI	AΒ	LΕ				
	VR973	QVJB84	A-EF5C		250	K					VA	RI	AB	LE				
								- 1	A 1	: \S	AiF	'iE'	TIY		PIAII	RIT!	S	

Others

																T
Δ	ITEM	PART	NU	мве	R	DE	S	С	R	I	Р	Т	I	0	N	AREA
	J042	QMS3L	40-E	рон		MINI	JA	СК								
	P321	EMV51	33-0	05KR		PLUG	AS	SY	(5PI	()						
	P492	EMV51	42-9	08		PLUG	AS	SY	(8PI	١)						
	P493	EMV51				PLUG			(8PI							
	\$300	ESP00	01-0	23M		TACT			CH(l
	S301	ESP00				TACT			CH()				
	S302	ESP00				TACT			CH(
	S303	ESP00				TACT			CH(
	S310	ESP00				TACT			CH()			
	S311	ESP00				TACT	SW		CH			·				
	S312	ESP00				TACT			CH(
	S313	ESP00				TACT			CH(,			1
	S320 S321	ESP00 ESP00				TACT			CH(1
	S322	ESP00				TACT			CH(
	S323	ESP00				TACT			CH(
	S330	ESP00				TACT			CH(381	NG)		
	S331	ESPOO				TACT			CH(,		
	S332	ESP00				TACT			CHC							1
	S333	ESP00				TACT			CHO							
	S461	ESB11				LEAF			CH(
	\$463	ESB11				LEAF			CH(
	\$464	ESB11				LEAF	SW	ΙT	CH(вС	r02))				
	\$465	ESB11	00-0	07		LEAF	SW	ΙT	CHC	REV	. RE	C)				
	\$466	ESB11	00-0	07		LEAF	SW	ΙT	CH(A C	r02)				
	\$467	ESB11				LEAF	SW	ΙT	CH(PRE	SET	>)				
	S901	ESP00	01-0	23M		TACT	SW	ΙT	CH(PRE	SET	4)				
	S902	ESP00	01-0	23M		TACT	SW	ΙT	CH(POV	NER)				
	\$903	ESP00	01-0	23M		TACT			CH()			
	S904	ESP00	01-0	23M		TACT			CH(
	S905	ESP00	01-0	23M		TACT			CH(()				
	S906	ESP00	01-0	23M		TACT	SW	ΙT	CH(MS	C)					
	S907	ESP00	01-0	23M		TACT			CH(
	S908	ESP00				TACT			CH(
	S909	ESP00				TACT			CH(
	S910	ESP00				TACT			CH(
	S911	ESP00				TACT			CHC			. 4	1			
	BC333	EWS32				SOCKE			RE(
	BC334.	EWS32				SOCKE			RE(
	BC492	EWS32				SOCKE			RE(
	BC493	EWS32				SOCKE			RE(
	BC612 BC972	EWS29				SOCKE										
	BK901	E3083				FL HO			(-, "	- /					
	FL901	ELUOO				FL TL		_ /4								
	FS699	E3400		:		FELT	SP	AC	ER	• • • •						
	FS901	E3068		1.4		FELT		AC								
	FW481	EWR36				FLAT	_		(6PIN	ı)						
,	FW495	EWR34				FLAT			(4PIN							
	FW496	EWR38				FLAT			(BPIN							
	FW497	EWR37				FLAT			(7PIN							
	FW498	EWR37				FLAT			(7PIN						-	
	FW901	EWR37				FLAT			(7PIN							
	FW902	EWR38				FLAT			(8PIP							
	FW903	EWR37							(7PI						-	
	JB901	EMV71				CONNE						******				
	JT481	EMV71				CONNE									- 1	
	JT482	EMV71				CONNE										
	XT491	ECXOO				RESON				. ,						
	XT901	ECXOO				RESON										
									A :-	2	A:F	riFin	ΓίΫ́	1 1	PIAIF	RITIS:

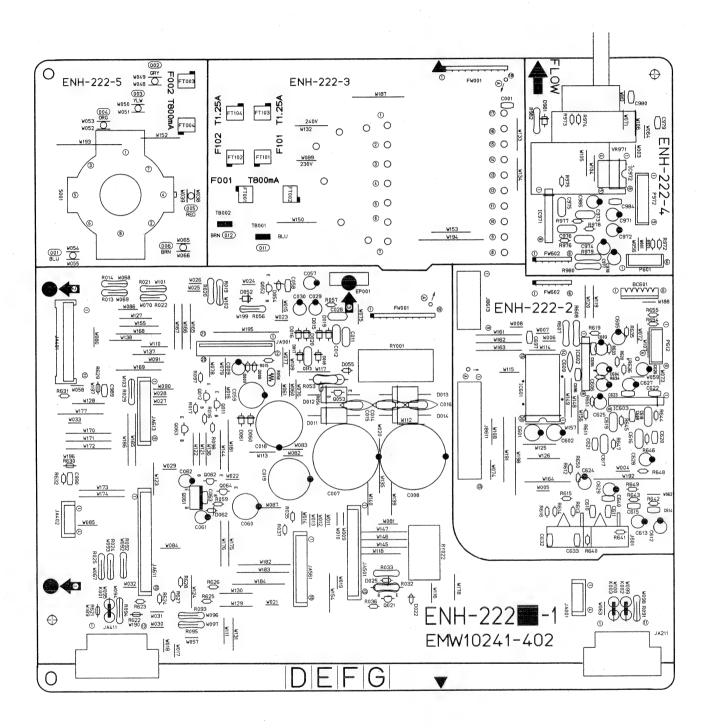
■ ENH-222 Input Selector & Power Supply PC Board Ass'y (the U.S.A., Canada)

Note: ENH-222 □ varies according to the areas employed. See note (1) when placing an order.



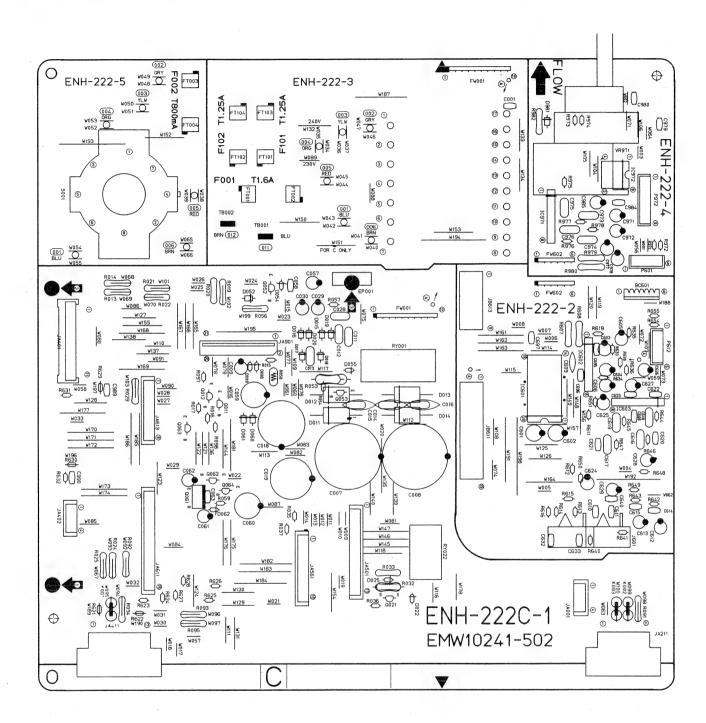
■ ENH-222 Input Selector & Power Supply PC Board Ass'y (Australia , Scandinavia , Continental Europe , the U.K. , Germany , Italy)

Note: ENH-222 ☐ varies according to the areas employed. See note (1) when placing an order.



■ENH-222 C Input Selector & Power Supply PC Board Ass'y (Taiwan, Universal Type)

Note: ENH-222 □ varies according to the areas employed. See note (1) when placing an order.



Note (1)

PC Board Ass'y	Designated Areas
ENH-222 🛕	the U.S.A.
ENH-222 B	Canada
ENH-222 C	Taiwan , Universal Type
ENH-222 D	Scandinavia Continental Europe
ENH-222 E	Australia
ENH-222 FBS	the U.K.
ENH-222 G	Germany , Italy

Transistors

Δ	ITEM	PART	NUMBI	ER	D	E	s	С	R	I	Р	т	1	0	N	AREA	
	Q011 Q012 Q021 Q052 Q053 Q061 Q062 Q063 Q064	2SC174 2SC174	YS OS(R,S 1AS(QR OS(R,S 7(E,F) ES TS))	SIL SIL SIL SIL SIL SIL	IC IC IC IC			!	ROI ROI ROI ROI ROI	IM IM IM IM IM						

A :: SIAIFIEITIYI PIAIRITIS

I.C.s

A I TEM	PART NUMBER	DES	CRIPTION	AREA
IC601 IC602 IC603 IC971 IC972	TC9163N BA15218N VC4580LD BA15218N LB1639-CV	I.C. I.C. I.C. I.C.	TOSHIBA ROHM DAINICHI ROHM SANYO	,

 $\Delta : |S|A|F|E|T|Y| |P|A|R|T|S|$

Diodes

Δ	ITEM	PART NUMBE	RDESC	RIPTION	AREA
	D008	188133	SILICON	ROHM	
	D009	MTZ5.1JC	ZENER	ROHM	1
	D011	S3V2OF	SILICON	SINDENGEN	A
	D011	S3V2OF	SILICON	SINDENGEN	В
Δ	D011	30DL2FC	SILICON	NIHONINTER	C
Δ	D011	30DL2FC	SILICON	NIHONINTER	D
Δ.	D011	30DL2FC	SILICON	NIHONINTER	E
Δ	D011	30DL2FC	SILICON	NIHONINTER	FBS
Δ	D011	30DL2FC	SILICON	NIHONINTER	G
	D012	S3V2OF	SILICON	SINDENGEN	A
	D012	S3V2OF	SILICON	SINDENGEN	В
Æ	D012	30DL2FC	SILICON	NIHONINTER	С
Δ	D012	30DL2FC	SILICON	NIHONINTER	D
Δ	D012	30DL2FC	SILICON	NIHONINTER	E
Δ	D012	30DL2FC	SILICON	NIHONINTER	FBS
Δ	D012	30DL2FC	SILICON	NIHONINTER	G
	D013	S3V20F	SILICON	SINDENGEN	A
	D013	S3V20F	SILICON	SINDENGEN	В
Δ	D013	30DL2FC	SILICON	NIHONINTER	C
Δ	D013	30DL2FC	SILICON	NIHONINTER	D E
Δ	D013	30DL2FC	SILICON	NIHONINTER	E
Δ	D013	30DL2FC	SILICON	NIHONINTER	FBS
A	D013	30DL2FC	SILICON	NIHONINTER	G
	D014	S3V2OF	SILICON	SINDENGEN	A
	D014	S3V2OF	SILICON	SINDENGEN	В
Δ	D014	30DL2FC	SILICON	NIHONINTER	C
Δ	D014	30DL2FC	SILICON	NIHONINTER	D
Δ	D014	30DL2FC	SILICON	NIHONINTER	E
Δ	D014	30DL2FC	SILICON	NIHONINTER	FBS
Δ	D014	30DL2FC	SILICON	NIHONINTER	G
	D015	1SR139-200	SILICON	ROHM	
	D016	1SR139-200	SILICON	ROHM	
	D017	1SR139-200	SILICON	ROHM	1
	D018	1SR139-200	SILICON	ROHM	1
	D019	1SR139-200	SILICON	ROHM	
	D020	1SR139-200	SILICON	ROHM	
	D022	188133	SILICON	ROHM	
	D025	MTZ11JC	ZENER	ROHM	C
	D025	MTZ11JC	ZENER	ROHM	D
	D025	MTZ11JC	ZENER	ROHM A :: SIA FIETTY PIA	E

Diodes

Δ	ITEM	PART	NUM!	3 E R	D	E	s	С	R	I	Р	т	1	0	N	AREA
	D025	MTZ11.	C		ZEN	ER			-	ROI	4M					FBS
1 1	D025	MTZ11.	I C		ZEN	ER			- 1	RO	M					G
1 1	D052	1SR139	-200		SIL	IC	ON		- 1	ROI	HH					1
	D054	MTZ5.1	JC		ZEN	ER			- 1	ROF	HH.					
	D055	188133	5		SIL	IC	ON		- 1	ROI	HH.					
	D060	1SR139	-200		SIL	IC	ON		- 1	ROF	IM.					
1	D061	1SR139	-200		SIL	IC	ON		1	ROP	IM					
	D062	MTZ30	C		ZEN	ER			- 1	109	1M					
	D981	1SR139	-200		SIL	ΙC	ON		1	ROF	M					

A ITISIAIFIEITIYI IPIAIRITIS

Capacitors

				T			
Δ	ITEM	PART	NUMBER	DES	C R I	MOIT 9	AREA
	C001		CM-103	0.01MF	16V	CERAMIC	
	C007		05-688T	6800MF		ELECTRO	
	C008		05-688T HM-225	2.2MF	50 V	ELECTRO	1
	C011		HJ-104	0.1MF	50V	T.FILM	
	C012		HJ-104	0.1MF	50V	T.FILM	
	C013	QFV81	HJ-104	0.1MF	50V	T.FILM	
	CO14		AK-103	0.01MF	100V	MYLAR MYLAR	A B
	CO14		AK-103 AJ-104	0.01MF	100V 100V	T.FILM	C
	C014		AJ-104	O.1MF	100V	T.FILM	Ď
	CO14		AJ-104	0.1MF	100V	T.FILM	E
	CO14		AJ-104	0.1MF	100V	T.FILM	FBS
	CO14 CO15		AJ-104 HJ-103	0.1MF 0.01MF	100V 50V	T.FILM MYLAR	G A
	CO15		HJ-103	0.01MF	50V	MYLAR	В
	CO15	QFN81	HJ-104	O.1MF	50V	MYLAR	С
	C015		HJ-104	0.1MF	50V	MYLAR	D
	CO15		HJ-104	0.1MF	50 V 50V	MYLAR	E FBS
	CO15		HJ-104 HJ-104	0.1MF 0.1MF	50V	MYLAR MYLAR	G
	C016		HJ-103	0.01MF	50V	MYLAR	Ā
	C016	QFN81	HJ-103	0.01MF	50V	MYLAR	В
	C016		HJ-104	0.1MF	50V	MYLAR	C
	C016		HJ-104 HJ-104	0.1MF	50V 50V	MYLAR MYLAR	D E
	C016		HJ-104	0.1MF	50V	MYLAR	FBS
	C016		HJ-104	0.1MF	50V	MYLAR	G
	C018		/M-338	3300MF	35V	ELECTRO	1
	C019		/M-228N	2200MF	35V 50V	ELECTRO MYLAR	
	C028		HJ-104 HM-106	0.1MF 10MF	50V	ELECTRO	1
	C030		09-106	10MF		ELECTRO	İ
	C057		HM-106	10MF	50V	ELECTRO	
	C058		CM-103	0.01MF	16V	CERAMIC	
	C059		HM-227 JM-227	220MF 220MF	50V 63V	ELECTRO	l
	C061		HM-226	22MF	50V	ELECTRO	
	C062		HM-226	22MF	50 V	ELECTRO	
	C063		IK-102	1000PF	507	CERAMIC	
	C601		EM-476	47MF 47MF	25V 25V	ELECTRO	
	C602 C603		EM-476 09-106	10MF	224	ELECTRO	
	C604		09-106	10MF		ELECTRO	1
	C605		09-106	10MF		ELECTRO	
	C606		09-106	10MF	254	ELECTRO	6
	C608		EZ-223 4K-561	0.022MF	25V 50V	CERAMIC	G
	C611		1K-561	560PF	50V	CERAMIC	G
	C612	QETB1	HM-475	4.7MF	50V	ELECTRO	
	C613		1M-475	4.7MF	50V	ELECTRO	
	C614 C615		HK-101 HK-101	100PF 100PF	50V 50V	CERAMIC CERAMIC	
	C616		-182	1800PF	50V	MYLAR	
	C617	QFLB1	1J-182	1800PF	50V	MYLAR	
	C618		HJ-682	6800PF	50V	MYLAR	Ì
	C619		HJ-682	6800PF	50V	MYLAR	
	C620 C621		HK-101 HK-101	100PF 100PF	50V 50V	CERAMIC	
	C622		HK-101	100PF	50V	CERAMIC	
	C623		HK-101	100PF	50V	CERAMIC	
	C624		HM-475	4.7MF	50V	ELECTRO	
	C625		HM-475	4.7MF	50V	ELECTRO	
	C626 C627		EM-476 EM-476	47MF 47MF	25V 25V	ELECTRO ELECTRO	
	C628		EM-476	47MF	25V	ELECTRO	
	C629	QETB1	EM-476	47MF	25V	ELECTRO	
	C632		HK-331	330PF	50V	CERAMIC	C
	C632		HK-331	330PF	50V 50V	CERAMIC	D
	C632		HK-331 HK-331	330PF 330PF	50V	CERAMIC	FBS
	C632		HK-331	330PF	50V	CERAMIC	G
	C633		HK-331	330PF	50V	CERAMIC	C
	C633		HK-331	330PF	50V	CERAMIC	D
1	C633	QCBB1	HK-331	330PF	50V	CERAMIC AFETY P	E

Capacitors

Δ	ITEM	PART	NUMB	ER	D E	S	C R	I	Р	Т	1 0	N	AREA
	C633	QCBB1	HK-331	3	30PF		50V		CEI	RAM	IC		FBS
	C633	QCBB1	HK-331	3	30PF		50V		CE	RAM	IC		G
	C697	QCBB1	HK-561	5	60PF		50V		CEI	RAM	IC		
	C971	QETB1	CM-476	4	7MF		16V		ELI	ECT	RO		1
	C972	QETB1	CM-476	4	7MF		16V		ELI	ECT	RO		
	C973	QFLB1	HJ-473	0	.047	MF	50V		MYI	AR			
1	C974	QFLB1	HJ-473	ю	.047	MF	50V		MYI	AR			
1	C975	QFV81	43-474	io	.47M	F	50V		T.1	FIL	M		Ì
	C976	QFV811	J-474	o	.47M	F	50V		T.1	FIL	M		1
	C977	QETB1	CM-476	4	7MF		16V		ELI	ECT	RO		l
	C978	QETB1	CM-476	4	7MF		16V		ELI	ECT	RO		
	C984	QCVB1	CM-103	ю	.01M	F	16V		CE	RAM	IC		ł
	C985	QER50.	JM-476	4	7MF		6.31	V	ELI	ECT	RO		Ì
	C989	QCBB1	HK-471	4	70PF		50 V		CEI	RAM	IC		G
	C990	QCBB1	HK-471	4	70PF		50V		CEI	RAM	IC		G
				-			1	:IS	AF	EIT	ΙΥΊ	PIAI	RITIS

Resistors

Δ	LTEM	PART NUMBER	DE	S C R I	PTION	AREA
Δ	R005	QRC128K-275EM	2.7M	1/2W	COMPOSI	A
Δ	R005	QRC128K-275EM	2.7M 10K	1/2W 1/6W	COMPOSI	В
	R015 R016	QRD167J-103 QRD167J-103	10K	1/6W	CARBON	ĺ
	R017	QRD167J-102	1 K	1/6W	CARBON	
Δ	R019	QRD14CJ-4R7S	4.7	1/4W	UNF.CARBON	1
Δ	R020	QRD14CJ-5R6S	5.6	1/4W	UNF.CARBON	
Δ	R021	QRD14CJ-680S	68	1/4W	UNF.CARBON	A
Δ	R021	QRD14CJ-680S	68	1/4W 1/4W	UNF.CARBON	В
Δ.	R022	QRD14CJ-680S QRD14CJ-680S	68 68	1/4W	UNF.CARBON UNF.CARBON	В
Δ	R025	QRD14CJ-3R9S	3.9	1/4W	UNF.CARBON	A
Δ	R025	QRD14CJ-3R9S	3.9	1/4W	UNF.CARBON	В
Δ	R032	QRD14CJ-151S	150	1/4W	UNF.CARBON	A
Δ.	R032	QRD14CJ-151S	150	1/4W	UNF.CARBON	В
Δ	R032	QRZ0077-151	150	1/4W	FUSIBLE	C
Δ	R032	QRZ0077-151 QRZ0077-151	150 150	1/4W 1/4W	FUSIBLE FUSIBLE	E
Δ	R032	QRZ0077-151	150	1/4W	FUSIBLE	FBS
Δ.	R032	QRZ0077-151	150	1/4W	FUSIBLE	G
***	R033	QRZ0077-151 QRD12CJ-391S	390	1/2W	R.NETWORK	A
	R033	QRD12CJ-391S	390	1/2W	R.NETWORK	В
	R033	QRD12CJ-331S	330	1/2W	R.NETWORK	C
	R033	QRD12CJ-331S	330	1/2W	R.NETWORK	D E
	R033	QRD12CJ-331S QRD12CJ-331S	330 330	1/2W 1/2W	R.NETWORK R.NETWORK	FBS
	R033	QRD12CJ-331S	330	1/2W	R.NETWORK	G
	R035	QRD167J-222	2.2K	1/6W	CARBON	
	R036	QRD167J-152	1.5K	1/6W	CARBON	
	R037	QRD167J-103	10K	1/6W	CARBON	
Δ	R053	QRG022J-221A	220	2 W	O.M.FILM	
	R054	QRD167J-222	2.2K	1/6W	CARBON	
Δ	R056	QRD14CJ-22OS	22	1/4W 1/4W	UNF.CARBON UNF.CARBON	A B
Δ	R056 R057	QRD14CJ-220S QRD167J-223	22K	1/4W 1/6W	CARBON	Р.
Λ	R058	PTH61G25AR4R7M	7.5.		FUSIBLE RE	SI
	R059	QRD167J-332	3.3K	1/6W	CARBON	
Δ	R094	QRD14CJ-3R9S	3.9	1/4W	UNF.CARBON	A
Δ	R094	QRD14CJ-3R9S	3.9	1/4W	UNF.CARBON	В
	R097	QRD167J-102	1K 120	1/6W	CARBON	
	R098 R607	QRD167J-121 QRD14CJ-680S	68	1/6W 1/4W	UNF.CARBON	A
Δ Δ	R607	QRD14CJ-680S	68	1/4W	UNF.CARBON	В
Δ	R607	QRZ0077-560	56	1/4W	FUSIBLE	C
Δ	R607	QRZ0077-560	56	1/4W	FUSIBLE	D
Δ	R607	QK200//-560	56	1/4W+	FUSIBLE	E
Δ	R607	QRZ0077-560	56	1/4W	FUSIBLE	FBS G
Δ	R607 R608	QRZ0077-560 QRD14CJ-680S	56 68	1/4W 1/4W	FUSIBLE UNF.CARBON	A
Δ	R608		68	1/4W	UNF.CARBON	В.
Æ Æ	R608	QRD14CJ-680S QRZ0077-560	56	1/4W	FUSIBLE	c
Δ	R608	QRZ0077-560	56	1/4W	FUSIBLE	D
Δ	R608	QRZ0077-560	56	1/4W	FUSIBLE	E
Δ	R608	QRZ0077-560	56	1/4W	FUSIBLE	FBS
Δ	R608	QRZ0077-560	56	1/4W	FUSIBLE	G
-	R611	QRD167J-104	100K	1/6W	CARBON	1
	R612	QRD167J-104	100K	1/6W	CARBON	
	R613	QRD167J-153	15K	1/6W	CARBON	
	R614	QRD167J-153 QRD167J-104	15K 100K	1/6W 1/6W	CARBON	1
	R615 R616	QRD167J-104 QRD167J-104	100K	1/6W	CARBON	
	R619	QRD167J-104	100K	1/6W	CARBON	
	R620	QRD167J-104	100K	1/6W	CARBON	
	R621	QRD167J-102	1 K	1/6W	CARBON	
	R622	QRD167J-102	1 K	1/6W	CARBON	l
	R623	QRD167J-562	5.6K	1/6W	CARBON	1
	R624	QRD167J-562	5.6K	1/6W	CARBON	
	R625	QRD167J-222 QRD167J-222	2.2K 2.2K	1/6W 1/6W	CARBON	1
	R626					

A :: ISIA: FIEITIYI | PIAIRITIS

Resistors

Δ	ITEM	PART NUMBER	DES	C R I	PTION	AREA
	R628	QRD167J-562	5.6K	1/6W	CARBON	
	R631	QRD167J-103	10K	1/6W	CARBON	
	R632	QRD167J-103	10K	1/6W	CARBON	
	R633	QRD167J-104	100K	1/6W	CARBON	
	R634	QRD167J-104	100K	1/6W	CARBON	
	R635	QRD167J-104	100K	1/6W	CARBON	
	R636	QRD167J-104	100K	1/6W	CARBON	
	R640	QRD167J-222	2.2K	1/6W	CARBON	
	R641	QRD167J-222	2.2K	1/6W	CARBON	
	R642	QRD167J-473	47K	1/6W	CARBON	
	R643	QRD167J-473	47K	1/6W	CARBON	
	R644	QRD167J-474	470K	1/6₩	CARBON	
	R645	QRD167J-474	470K	1/6W	CARBON	
	R646	QRD167J-393	39K	1/6W	CARBON	
	R647	QRD167J-393	39K		CARBON	
	R648	QRD167J-821	820	1/6W	CARBON	
	R649	QRD167J-821	820	1/6W	CARBON	
	R650	QRD167J-561	560	1/6W	CARBON	
	R651	QRD167J-561	560	1/6W	CARBON	
	R654	QRD167J-391	390	1/6W	CARBON	
	R655	QRD167J-391	390	1/6W	CARBON	
	R971	QRD167J-222	2.2K	1/6W	CARBON	
	R972	QRD167J-222	2.2K	1/6W	CARBON	
	R973	QRD167J-153	15K	1/6W	CARBON	
	R974	QRD167J-153	15K	1/6W	CARBON	
	R975	QRD167J-331	330	1/6W	CARBON	
	R976	QRD167J-331	330	1/6W	CARBON	
	R977	QRD167J-474	470K	1/6W	CARBON	
	R978	QRD167J-474	470K	1/6W	CARBON	
	R979	QRD167J-331	330	1/6W	CARBON	
	R980	QRD167J-331	330	1/6W	CARBON	
Δ	R982	QRD14CJ-4R7S	4.7	1/4W	UNF.CARBON	
	VR971	QVDB91B-E15H	100K		VARIABLE	

A :: SIAIFIEITIYI | PIAIRITIS

Ot	hers															
Δ	ITEM	PART	NUM	BER	D	E	S	С	R	Ī	Р	Т	I	0	N	AREA
	J601	EMNOOT	V-41	2B	4 P	ΡI	N	JA	СК							
	P601	EMV510	9-00	5 A	PLI	JG	AS	SY	(6PII	4)						
	P612	EMV510	9-00	5 A	PLI	JG	AS	SY	(6PII	V)						
	P972	EMV510	9-009	9 A	PLI											
Δ.	S001	QSR008			VOI											C
	BC601	EWS296		5					RE(6PII	٧)					
	EP001	E70859			EA											Α
	EP001	E70859			EAF				ΤE							В
	FT001	EMG733			FU:											
	FT002	EMG733			FU:											
	FT003	EMG733			FU:											C
	FT004	EMG733			FU:											C
	FT101	EMG733		_	FU:											1
	FT102	EMG733			FU:											1
	FT103	EMG733			FU:											1
	FT104	EMG733			FU:											
	FW001	EWR3AE							(10P							Α
	FW001	EWR3AB			FLI											В
	FW001	EWR3AE							(10P							C
	FW001	EWR3AE							(10P							D
	FW001	EWR3AE							(10P							E
	FW001	EWR3AE			FLI											FBS
	FW001	EWR3AE			FL											G
	FW602	EWR36B			FLI											
	JA001	EMV512							(4PII							
	JA211	EMV712							(11P							
	JA401	EMV514	-		PLI											l
	JA402	EMV512			PL											l
	JA411	EMV712			COI											
	JA501	EMV512			PLI											
	JA561	EMV512			PLI											1
	JA611	EMV512			PLI				•							
	JA613	EMV512			PLI											
	JA901	EMV712			COI											
	JB611	EMV712			COL											
	JB613	EMV712			COL			UK	Shit	i l						
	RY001	ESK1D1			REL											
	RY022	ESK8D2			REL											
	TB001	EMZ400			TAE											1
	TB002	EMZ400	1-00	l .	LIAI											Siffic:

A : ISIAIFIEITIYI IPIAIRITIS

Accessories List

\triangle	Part Number	Part Name	Q'ty	Description	Areas
	E30580-1929A	INSTRUCTION BOOK	1		J
	E30580-1930A	INSTRUCTION BOOK	1		C
	E30580-1930A	INSTRUCTION BOOK	1		EF
	E30580-1930A	INSTRUCTION BOOK	1		G
	E30580-1930A	INSTRUCTION BOOK	1		GI
	E30580-1931A	INSTRUCTION BOOK	1		U
	E30580-1931A	INSTRUCTION BOOK	1		UT
	E30580-1932A	INSTRUCTION BOOK	1		A
	E30580-1932ABS	INSTRUCTION BOOK	1		BS
	E30580-1933A	INSTRUCTION BOOK	1 1		EN
	BT-51006-1	SAFETY REGISTRATION CARD	1		J
	BT-20025K	WARRANTY CARD	1		c
	BT-20134	WARRANTY CARD	1		G
	BT20060	WARRANTY CARD	1		BS
	BT-20122	AUDIO WARRANTY CARD	1 1		A
	BT-20122-1	LTD STICKER	1 1		A
	BT-20044G	SAFETY INSTRUCTION SHEET	1		17
	BT20071A	SERVICE CENTER LIST	1	,	c
	BT20066A	EEC AGENCY	1		BS
	E43486-340A	SAFETY SHEET	1		BS
-	QZL1008-001	FTZ INFORMATION SHEET	+ +		G
	•	ADAPTER	1 1		EN
	EMZ2001-012	ADAPTER	1		EF
	EMZ2001-012		1		BS
-	EMZ2001-012	ADAPTER	- 1		
	EMZ2001-012	ADAPTER	1 1		GI
	E43486-410B	CAUTION SHEET	- 1	2201/	
	E35497-019	CAUTION SHEET	1	220V	U
	E35497-019	CAUTION SHEET	1	220V	UT
_	E306858-002	CAUTION SHEET	1		UT
<u> </u>	E04056	SIEMEMS PLUG	1		U
⚠	E04056	SIEMEMS PLUG	1		UT
	EWP502-005K	BILT-IN ANTENNA	1		
	EWP502-005K	BILT-IN ANTENNA	1		C
	EWP502-005K	BILT-IN ANTENNA	1		Α
	EWP502-005K	BILT-IN ANTENNA	1		BS
	EWP502-005K	BILT-IN ANTENNA	1		EN
	EWP502-005K	BILT-IN ANTENNA	1		EF
	EWP502-005K	BILT-IN ANTENNA	1		GI
	EWP502-005K	BILT-IN ANTENNA	1		U
	EWP502-005K	BILT-IN ANTENNA	1		UT
	E67007-001	WIRE ANTENNA	. 1		G
	EQB4001-015	AM LOOP ANTENNA	1		
	R03BPA-2STSA	BATTERY	1		J ·
	R03BPA-2STSA	BATTERY	1		C
	UM-4NJ-2PSA	BATTERY	1		A
	UM-4NJ-2PSA	BATTERY	1		BS
	UM-4NJ-2PSA	BATTERY	1		EN
	UM-4NJ-2PSA	BATTERY	1		EF
	UM-4NJ-2PSA	BATTERY	1		G
	UM-4NJ-2PSA	BATTERY	1		GI

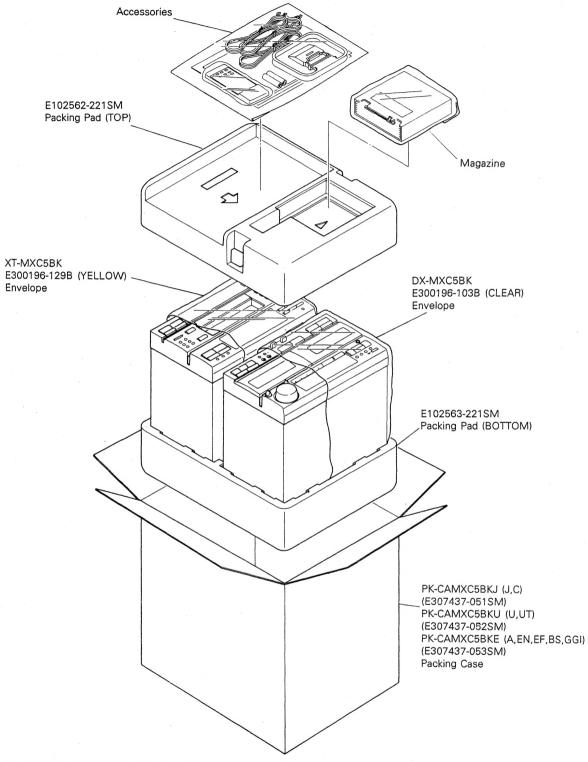
\triangle	Part Number	Part Name	Q'ty	Description	Areas
	UM-4NJ-2PSA	BATTERY	1		U
	UM-4NJ-2PSA	BATTERY	1		UT
	RM-SEMXC5U	REMOTE CONTROLLER	1		·
	56W820A	BATTERY COVER	1		
	E26072-005	MAGAZINE	1		
	QPGA020-02505	ENVELOPE	1		· C .
	QPGA020-02505	ENVELOPE	1		Α
	QPGA020-02505	ENVELOPE	1		G
	QPGA020-02505	ENVELOPE	1	·	BS
	QPGA025-03505B	ENVELOPE	1		J
	QPGA025-03505B	ENVELOPE	1		BS
	QPGA025-03505	ENVELOPE	1		С
	QPGA025-03505	ENVELOPE	1		Α
	QPGA025-03505	ENVELOPE	1		EN
	QPGA025-03505	ENVELOPE	1		EF
	QPGA025-03505	ENVELOPE	1		G
	QPGA025-03505	ENVELOPE	1		GI
	QPGA025-03505	ENVELOPE	1		υ
	QPGA025-03505	ENVELOPE	1		UT

△ SAFETY PARTS

The Marks for Designated Areas

J	the U.S.A.	C	Canada	Α	Australia	BS	the U.K.
EN	Scandinavia	EF	Continental Europe	G	Germany	GI	Itary
UT	Taiwan	U	Universal type	No mark	indicates all	areas.	

Packing Materials and Part Numbers



The Marks for Designated Areas								
J	the U.S.A.	BS	the U.K.					
C		G	Germany					
Α	Australia	GI	Italy					
		UT						
EF No marks	Continental Europe indicates all areas.	U	Universal Type					

--- MEMO -

— МЕМО

	Îtem	Adjustment Method	Adjustment Location	Standard Value	Remarks
* 6	Record / Playback Sensitivity	 Input a 1 kHz (-8.2dBs: 300mV) signal to VIDEO/AUX terminals and record it on the left and right channels. Connect an electronic voltmeter to the DOLBY TP (figure 3) to confirm the recorded values. If the values are not satisfied, adjust the semi-fixed resistors and record the signals again to confirm the values. 	L: VR311 R: VR312	– 5.5dBs (411mV)	Adjust with normal tape and make sure that the left/right level difference is 1.0dB or less
7	Erase ratio check	 Record a music source using CrO₂ tape. Rewind and erase the recorded section. Comfirm nothing can be heard. 	_	_	-
8	Auto-stop check	Make sure to operate AUTO STOP at the end of tape running and not to operate on the way of the playing.	_		-
9	Music Scan	 Make sure not to work the music scanning operation at the start of tape wind using TMT-6237. Make sure to work the music scanning operation at the end of tape wind using TMT-6247. 	-	-	_

